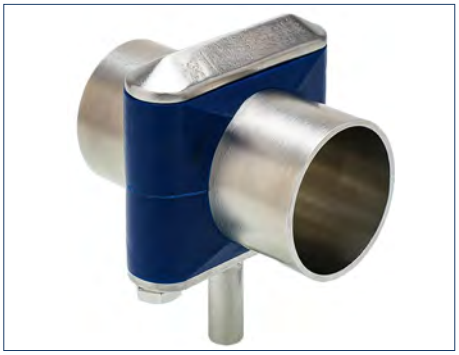
Syntiro Dynamics

PROCESS TUBE & PIPE CATALOG

Hygienic Pipe Hanging Systems for Stainless Steel Tube, Schedule Pipe and Instrumentation Lines

DRAINABLE & CLEANABLE



NO EXPOSED THREADS

ZERO CAULK - ENGINEERED SOLUTIONS

Syntiro Dynamics "HANG WITH THE BEST"

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About Syntiro

Syntiro was established in 2009 and has become a top supplier of sanitary pipe hanging systems. We offer a comprehensive range of cleanroom pipe hangers supporting stainless steel and copper tubing, schedule pipe, conduit, instrumentation, and cable lines. Our hangers are mainly used in hygienic piping applications in the biotech, pharmaceutical, food, beverage, and dairy industries.

The CSD Series is an excellent option for creating a thorough cleanroom environment, thanks to its vast range of line types supported and various mounting configurations. It features Zero Puddle silicone rubber inserts with a convex design that eliminates flat surfaces on riser / vertical lines. Along with the anchor hangers, loose-fit guides are also offered. Guides allow a line to expand and contract freely during thermal cycling. The CSD's robust building and impressive features have made it a top choice for many contractors and OEMs.

The Process Hex Hanger is designed for easy cleaning and incorporates the hexagonal shape commonly used in the food and beverage industries. Its unique features include Zero Puddle silicone rubber inserts that eliminate puddling, exposed threads, and other debris-collecting points that can compromise sanitation. Unlike outdated hex hangers, the PHH's modern design has no blind spots or voids that can harbor pathogens, and it requires only one tool for installation, reducing the risk of accidents and making it easier to work in tight spaces. The Process Hex Hanger is the perfect solution for complying with Food Safety Modernization Act cleanliness requirements in the 21st century.

Our Zero Caulk Brackets and Zero Caulk Spacers are self-explanatory. These products provide a hygienic Zero Caulk connection for hangers and equipment mounted on surfaces in process areas. The Food Safety Modernization Act requires everything mounted in process areas to be offset from the surface to allow complete cleaning access. Traditionally, brackets and offset spacers have required a caulked seal to cover gaps on all surfaces. However, a caulk seal can deteriorate over time due to continued exposure to wash and wipe downs, which accelerates the breakdown of caulk, leading to bacterial harborage points that will require removal and reapplication of caulk in a few years. Any areas that harbor bacteria can lead to contamination. Zero Caulk mounted products eliminate the caulking process, resulting in improved cleanliness, reduced labor costs, and decreased costs and downtime. This means you can save time and money by avoiding the need to inspect, remove, and reapply unacceptable or broken-down caulk.

Syntiro appreciates your years of support.

New & Unique Pipe Hanging

SOLUTIONS INCREASING UPTIME

ZERO CAULK 1" AND 2" SPACERS - ZCS SERIES

Silicone Rubber Gasket Seals To Wall's Surface and Mounted Device

Pages 25-26

- Silver ions are blended in the FDA-grade silicone rubber sealing plugs, impeding bacteria, mold, and fungus from forming.
- ZCS's silicone rubber plugs fill the cups/boot interior, creating a water-tight seal to the surface.
- Eventually all caulk in clean applications will break down, creating harborage zones that can lead to pathogen growth. ZCS effectively ELIMINATES such caulk-risk.
- If you can't see it, reach it, clean it, or sample it, it has the poential to allow the growth of microbials .

NEW

NEW

Pages 31-34

ZERO CAULK PEDESTAL MOUNT - ZCP SERIES

The ZC Pedestal's base mounts are the new ZC 1" or 2" high ZCS spacers. The Zero Puddle CSDW style hanger or the Process Hex Hangers PHHW hangers are mounted to the top of the ZC Spacer. The ZCP's are ideal for installing to Insulated Metal Panels (IMPs) with blind side walls, yet are perfect for Cleanroom Wall Panels with open rear side excess. When mounting to IMP's stainless steel cup/boot encases the rivet nut, the silicone rubber plug fills the ZCS's interior and seals to the mounting surface.

- Silver ion additives are blended in FDA-grade Silicone Rubber Gaskets, preventing bacteria, mold, and fungus from forming on the gasket.
- Caulk over time with exposure will break down and crack
- Harborage points are potential bacterial growth zones
- ZC products eliminate the need to inspect and reinstall caulking
- Reducing downtime.

U.S. Pat. No. US 9,822,907

Syntiro Dynamics

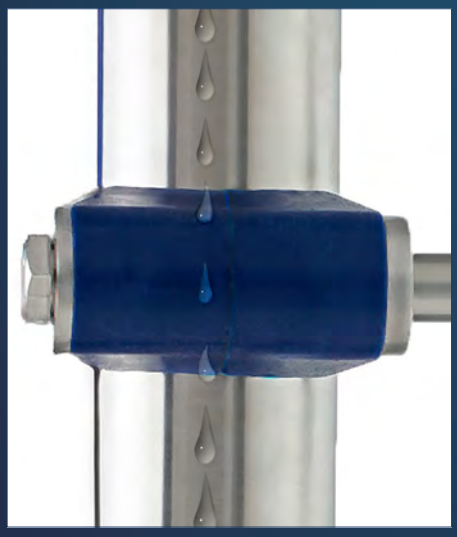
"HANG WITH THE BEST"

NO EXPOSED THREADS

PROCESS HEX HANGER - PHH

- Drainable exterior
- Wipe down cleanable
- No exposed threads
- Self-draining on riser lines
- Carriage bolt locks into hardware frame's square hole, allowing a single tool to tighten acorn nuts
- Carriage bolts are reversible, allowing rounded drainable surfaces to be positioned on hangers' topside
- The hex shape is familiar to most installers - no installation learning curve

U.S. Pat. No. US 9,038,968



ZERO PUDDLE SILICONE RUBBER INSERTS

Removes Flat Spots on Riser Hanger's Topside

Offered In: Tube OD Sizes, Scheduled Pipe, PVC Coated Conduit and Electrical Metallic Tubing (EMT)

When supporting riser/vertical lines:

- The inserts' sloped/convex sides eliminates flat surfaces
- Facilitating drainage
- Eases cleaning and wipe downs - reducing downtime
- Available on all CSD & PHH style hangers
- Available from 1/4" Tube thru 6" Tube and 1/2" Pipe thru 6" Pipe

U.S. Pat. No. US 9,033,289

REDUCING DOWNTIME

Pages 21-24

ZERO CAULK UNIVERSAL PLATE - ZCUP SERIES

Ideal for Insulated Metal Panels (IMPs) or blind side walls, but is also perfect for Clean Room Panel open side walls. The bracket's stainless steel cup/boot encases the rivet nut, while the silicone rubber plug fills the ZCUP's interior and seals to the mounting surface.

- Silver ion additive is blended in the FDA grade Silicone Rubber Gaskets, impede bacterial, mold, and fungus from forming on the gasket
- ZCUP's mounting rod allows universal mounting of any style hanger or process area accessories
- Caulk over time with exposure will break down and crack
- Harborage points are all potential bacterial growth zones
- ZC eliminates the need to inspect and replace caulking

U.S. Pat. No. US 9,033,289 B2

CSD SERIES

TUBE & PIPE HANGERS WITH ZERO PUDDLE INSERTS

APPLICATIONS:

- Cleanrooms and mechanical areas, including but not limited to the bio tech, pharmaceutical, food processing, beverage, dairy, cosmetic, chemical, water treatment, and semiconductor industries
- Low flow & low pressure systems with moderate vibration: WFI, SIP, CIP, process, utility & instrument lines

SIZES:

- Support Range: 1/4" - 6" Tube and 1/2" - 6" Pipe for Copper and Conduits, including PVC Coated Pipe
- Tight fit Anchors and loose fit Guides are offered

MATERIALS:

- 304 amd 316 stainless steels – for 316, replace 304 with 316 in the part number
- ZERO PUDDLE inserts are FDA grade silicone rubber

SPECIFICATIONS:

- Intermittent temperatures from -40F to 320F
- Continuous temperatures from -20F to 302F - Contact Syntiro with continuous application's environmental details

BENEFITS:

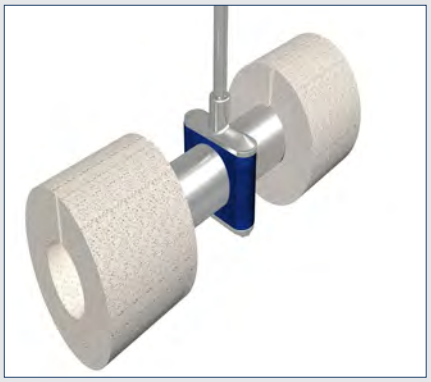
- ZERO PUDDLE Silicone inserts' raised geometry facilitates drainage of liquids on vertical/riser lines, reducing maintenance downtime
- Sloped top plate for drainage and improved cleanability
- Guides with a loose fit allow the line to freely expand and contract during thermal cycling, preventing undue stress to welds
- CSDH style incorporates an elongated threaded section that increases the housing's elevation adjustment, aiding in slope alignment
- Insulation Envelope "IE": Reduced OD allows the hanger to be buried under the insulation jacket
- Insulation Thickness: Line's ODs are Encased Under Insulation
  - 1.0" of insulation : ½" Tube (0.5") to 3" Copper (3.125")
  - 1.5" of insulation : 3" Pipe (3.5") to 4" Pipe (4.50")
  - 2.0" of insulation : 6" Tube (6.0") to 6" Pipe (6.625")
- There are no exposed threads or openings in the hardware plates
- Hanger threads match the MSS 69 rod OD requirement

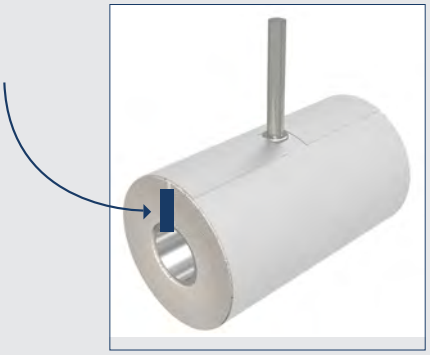
NEW PEDESTAL 1" & 2" HIGH MOUNTS

- Offers material and labor savings
- Includes Zero Caulk technology
- Also available with PHHW style

ZERO PUDDLE INSERT

INSULATION ENVELOPE "IE"

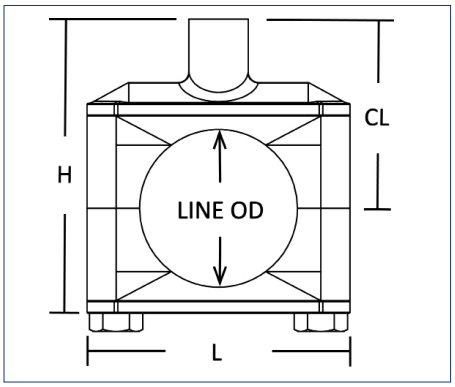


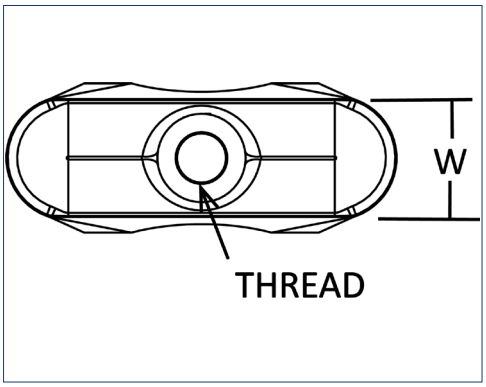


Refer to www.syntirocorp.com or call Syntiro for most up to date information

HANG MOUNT - CSDH

FOR ATTACHMENT: Use Syntiro's Shielded Rod, a solid rod with a threaded end



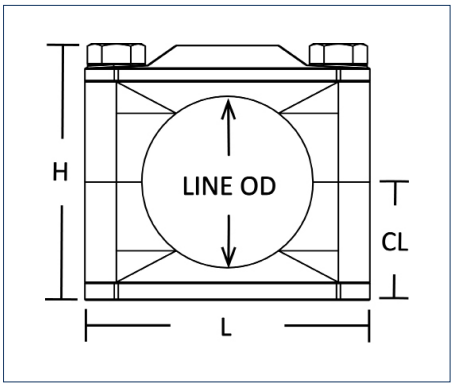


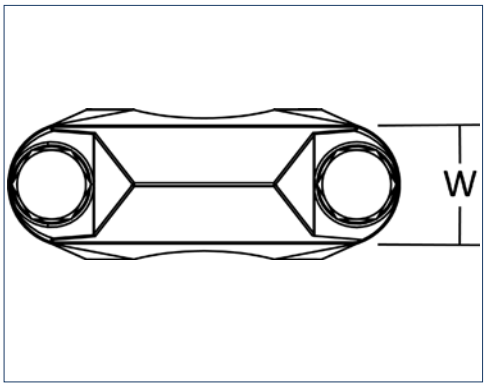
for 316 hardware substitute 304 with 316

Tube Size	Line OD	H	L	PLATES W	CL	Thread	Part Number (anchor/tight fit)	Part Number (guide/loose fit)
1/4”	0.25	2.07	1.93	0.75	1.45	3/8”-16	CSDH0.25T304ZP	CSDH0.25T304ZG
3/8”	0.38	2.07	1.93	0.75	1.45	3/8”-16	CSDH0.38T304ZP	CSDH0.38T304ZG
1/2”	0.50	2.07	1.93	0.75	1.45	3/8”-16	CSDH0.50T304ZP	CSDH0.50T304ZG
3/4”	0.75	2.29	1.93	0.75	1.55	3/8”-16	CSDH0.75T304ZP	CSDH0.75T304ZG
1”	1.00	2.29	1.93	0.75	1.55	3/8”-16	CSDH1.0T304ZP	CSDH1.0T304ZG
1 1/2”	1.50	2.79	2.49	0.75	1.80	3/8”-16	CSDH1.5T304ZP	CSDH1.5T304ZG
2”	2.00	3.29	2.99	0.88	2.11	3/8”-16	CSDH2.0T304ZP	CSDH2.0T304ZG
2 1/2”	2.50	4.36	3.36	0.88	2.92	1/2”-13	CSDH2.5T304ZP	CSDH2.5T304ZG
3”	3.00	5.18	3.99	0.88	3.17	1/2”-13	CSDH3.0T304ZP	CSDH3.0T304ZG
4”	4.00	6.12	5.10	1.00	3.88	5/8”-11	CSDH4.0T304ZP	CSDH4.0T304ZG
6”	6.00	7.44	7.26	1.25	4.11	3/4”-10	CSDH6.0T304ZP	CSDH6.0T304ZG
Pipe Size	**Line OD**	**H**	**L**	**PLATES W**	**CL**	**Thread**	**Part Number (anchor/tight fit)**	**Part Number (guide/loose fit)**
1/2”	0.840	2.29	1.93	0.75	1.55	3/8”-16	CSDH0.50P304ZP	CSDH0.50P304ZG
3/4”	1.050	2.29	1.93	0.75	1.55	3/8”-16	CSDH0.75P304ZP	CSDH0.75P304ZG
1”	1.315	2.79	2.49	0.75	1.80	3/8”-16	CSDH1.0P304ZP	CSDH1.0P304ZG
1 1/4”	1.660	3.29	2.99	0.88	2.11	3/8”-16	CSDH1.25P304ZP	CSDH1.25P304ZG
1 1/2”	1.900	3.29	2.99	0.88	2.11	3/8”-16	CSDH1.5P304ZP	CSDH1.5P304ZG
2”	2.375	4.36	3.36	0.88	2.92	1/2”-13	CSDH2.0P304ZP	CSDH2.0P304ZG
2 1/2”	2.875	4.84	3.74	0.88	3.11	1/2”-13	CSDH2.5P304ZP	CSDH2.5P304ZG
3”	3.500	5.52	4.48	1.00	3.60	1/2”-13	CSDH3.0P304ZP	CSDH3.0P304ZG
4”	4.500	6.69	5.10	1.00	4.24	5/8”-11	CSDH4.0P304ZP	CSDH4.0P304ZG
6”	6.625	7.94	7.73	1.25	4.35	3/4”-10	CSDH6.0P304ZP	CSDH6.0T304ZG

WELD MOUNT - CSDW

FOR ATTACHMENT: Bottom plate is welded to the mounting rod or directly to a structure



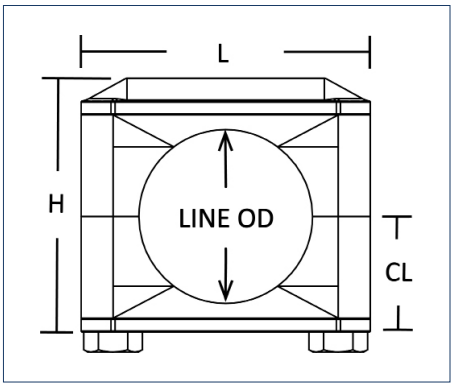


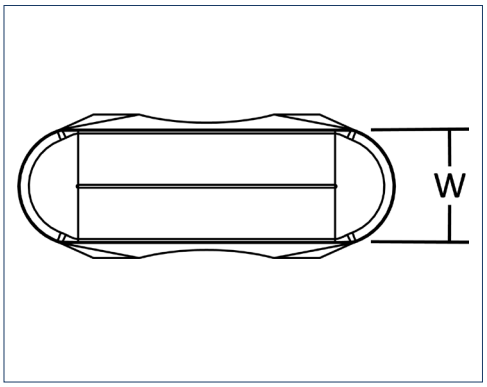
for 316 hardware substitute 304 with 316

Tube Size	Line OD	H	L	PLATES W	CL	Part Number (anchor/tight fit)	Part Number (guide/loose fit)
1/4”	0.25	1.51	1.93	0.75	0.69	CSDW0.25T304ZP	CSDW0.25T304ZG
3/8”	0.38	1.51	1.93	0.75	0.69	CSDW0.38T304ZP	CSDW0.38T304ZG
1/2”	0.50	1.51	1.93	0.75	0.69	CSDW0.50T304ZP	CSDW0.50T304ZG
3/4”	0.75	1.73	1.93	0.75	0.79	CSDW0.75T304ZP	CSDW0.75T304ZG
1”	1.00	1.73	1.93	0.75	0.79	CSDW1.0T304ZP	CSDW1.0T304ZG
1 1/2”	1.50	2.16	2.49	0.75	1.03	CSDW1.5T304ZP	CSDW1.5T304ZG
2”	2.00	2.71	2.99	0.88	1.31	CSDW2.0T304ZP	CSDW2.0T304ZG
2 1/2”	2.50	3.25	3.36	0.88	1.55	CSDW2.5T304ZP	CSDW2.5T304ZG
3”	3.00	3.97	3.99	0.88	1.91	CSDW3.0T304ZP	CSDW3.0T304ZG
4”	4.00	4.87	5.10	1.00	2.39	CSDW4.0T304ZP	CSDW4.0T304ZG
6”	6.00	6.69	7.26	1.25	3.36	CSDW6.0T304ZP	CSDW6.0T304ZG
Pipe Size	Line OD	H	L	PLATES W	CL	Part Number (anchor/tight fit)	Part Number (guide/loose fit)
1/2”	0.840	1.73	1.93	0.75	0.79	CSDW0.50P304ZP	CSDW0.50P304ZG
3/4”	1.050	1.73	1.93	0.75	0.79	CSDW0.75P304ZP	CSDW0.75P304ZG
1”	1.315	2.16	2.49	0.75	1.03	CSDW1.0P304ZP	CSDW1.0P304ZG
1 1/4”	1.660	2.75	2.99	0.88	1.31	CSDW1.25P304ZP	CSDW1.25P304ZG
1 1/2”	1.900	2.75	2.99	0.88	1.31	CSDW1.5P304ZP	CSDW1.5P304ZG
2”	2.375	3.25	3.36	0.88	1.47	CSDW2.0P304ZP	CSDW2.0P304ZG
2 1/2”	2.875	3.68	3.74	0.88	1.77	CSDW2.5P304ZP	CSDW2.5P304ZG
3”	3.500	4.15	4.48	1.00	2.06	CSDW3.0P304ZP	CSDW3.0P304ZG
4”	4.500	5.27	5.10	1.00	2.58	CSDW4.0P304ZP	CSDW4.0P304ZG
6”	6.625	7.19	7.73	1.25	3.60	CSDW6.0P304ZP	CSDW6.0P304ZG

BASE MOUNT - CSDBM

FOR ATTACHMENT: Weld mounting rod to bottom plate, then to mounting plate or structure



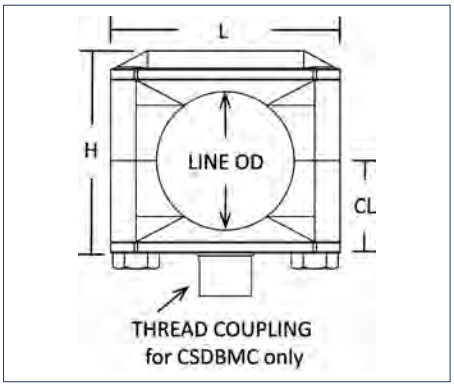


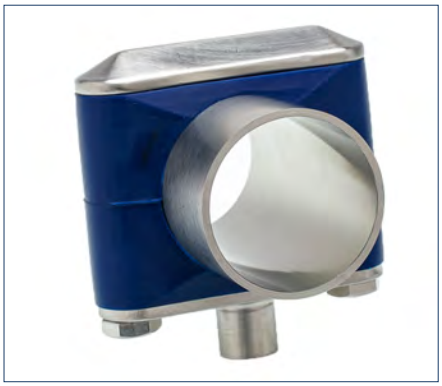
for 316 hardware substitute 304 with 316

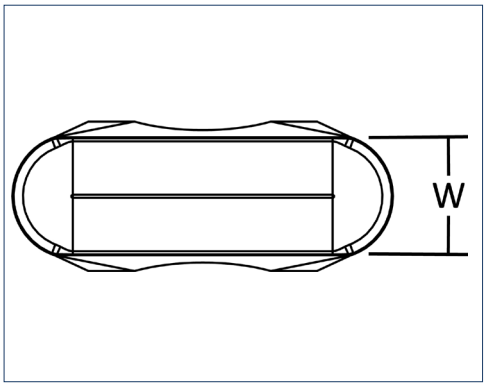
Tube Size	Line OD	H	L	PLATES W	CL	Part Number (anchor/tight fit)	Part Number (guide/loose fit)
1/4”	0.25	1.64	1.93	0.75	0.82	CSDBM0.25T304ZP	CSDBM0.25T304ZG
3/8”	0.38	1.64	1.93	0.75	0.73	CSDBM0.38T304ZP	CSDBM0.38T304ZG
1/2”	0.50	1.64	1.93	0.75	0.73	CSDBM0.50T304ZP	CSDBM0.50T304ZG
3/4”	0.75	1.70	1.93	0.75	0.73	CSDBM0.75T304ZP	CSDBM0.75T304ZG
1”	1.00	1.70	1.93	0.75	0.73	CSDBM1.0T304ZP	CSDBM1.0T304ZG
1 1/2”	1.50	2.19	2.49	0.75	0.97	CSDBM1.5T304ZP	CSDBM1.5T304ZG
2”	2.00	2.69	2.99	0.88	1.25	CSDBM2.0T304ZP	CSDBM2.0T304ZG
2 1/2”	2.50	3.19	3.36	0.88	1.49	CSDBM2.5T304ZP	CSDBM2.5T304ZG
3”	3.00	3.97	3.99	0.88	1.85	CSDBM3.0T304ZP	CSDBM3.0T304ZG
Pipe Size	Line OD	H	L	PLATES W	CL	Part Number (anchor/tight fit)	Part Number (guide/loose fit)
1/2”	0.840	1.70	1.93	0.75	0.73	CSDBM0.50P304ZP	CSDBM0.50P304ZG
3/4”	1.050	1.70	1.93	0.75	0.73	CSDBM0.75P304ZP	CSDBM0.75P304ZG
1”	1.315	2.19	2.49	0.75	0.97	CSDBM1.0P304ZP	CSDBM1.0P304ZG
1 1/4”	1.660	2.69	2.99	0.88	1.25	CSDBM1.25P304ZP	CSDBM1.25P304ZG
1 1/2”	1.900	2.69	2.99	0.88	1.25	CSDBM1.5P304ZP	CSDBM1.5P304ZG
2”	2.375	3.19	3.36	0.88	1.49	CSDBM2.0P304ZP	CSDBM2.0P304ZG
2 1/2”	2.875	3.63	3.74	0.88	1.71	CSDBM2.5P304ZP	CSDBM2.5P304ZG

BASE MOUNT THREAD COUPLING MOUNT - CSDBMC

FOR ATTACHMENT: Use Syntiro's Shielded Rod, a solid rod with a threaded end





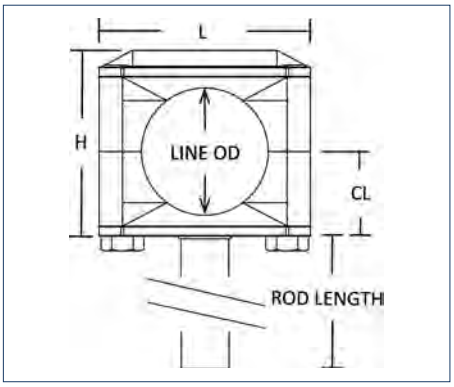


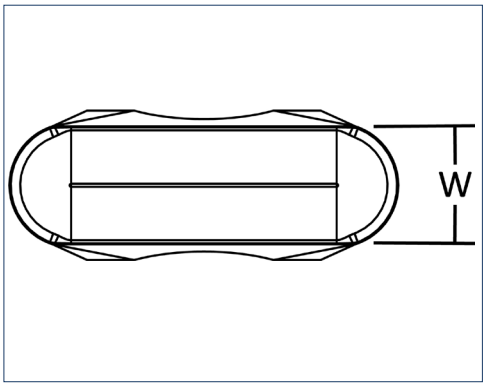
for 316 hardware substitute 304 with 316

Tube Size	Line OD	H	L	PLATES W	CL	Round Coupling		Part Number (anchor/tight fit)	Part Number (guide/loose fit)
						Height	Thread		
1/4"	0.25	1.70	1.93	0.75	0.73	0.47	3/8"-16	CSDBMC0.25T304ZP	CSDBMC0.25T304ZG
3/8"	0.38	1.70	1.93	0.75	0.73	0.47	3/8"-16	CSDBMC0.38T304ZP	CSDBMC0.38T304ZG
1/2"	0.50	1.70	1.93	0.75	0.73	0.47	3/8"-16	CSDBMC0.50T304ZP	CSDBMC0.50T304ZG
3/4"	0.75	1.70	1.93	0.75	0.73	0.47	3/8"-16	CSDBMC0.75T304ZP	CSDBMC0.75T304ZG
1"	1.00	1.70	1.93	0.75	0.73	0.47	3/8"-16	CSDBMC1.0T304ZP	CSDBMC1.0T304ZG
1 1/2"	1.50	2.19	2.49	0.75	0.97	0.47	3/8"-16	CSDBMC1.5T304ZP	CSDBMC1.5T304ZG
2"	2.00	2.69	2.99	0.88	1.25	0.47	3/8"-16	CSDBMC2.0T304ZP	CSDBMC2.0T304ZG
2 1/2"	2.50	3.19	3.36	0.88	1.49	0.59	1/2"-13	CSDBMC2.5T304ZP	CSDBMC2.5T304ZG
3"	3.00	3.97	3.99	0.88	1.85	0.59	1/2"-13	CSDBMC3.0T304ZP	CSDBMC3.0T304ZG
Pipe Size	Line OD	H	L	PLATES W	CL	Round Coupling		Part Number (anchor/tight fit)	Part Number (guide/loose fit)
						Height	Thread		
1/2"	0.840	1.70	1.93	0.75	0.73	0.47	3/8"-16	CSDBMC0.50P304ZP	CSDBMC0.50P304ZG
3/4"	1.050	1.70	1.93	0.75	0.73	0.47	3/8"-16	CSDBMC0.75P304ZP	CSDBMC0.75P304ZG
1"	1.315	2.19	2.49	0.75	0.97	0.47	3/8"-16	CSDBMC1.0P304ZP	CSDBMC1.0P304ZG
1 1/4"	1.660	2.69	2.99	0.88	1.25	0.47	3/8"-16	CSDBMC1.25P304ZP	CSDBMC1.25P304ZG
1 1/2"	1.900	2.69	2.99	0.88	1.25	0.47	3/8"-16	CSDBMC1.5P304ZP	CSDBMC1.5P304ZG
2"	2.375	3.19	3.36	0.88	1.49	0.59	1/2"-13	CSDBMC2.0P304ZP	CSDBMC2.0P304ZG
2 1/2"	2.875	3.63	3.74	0.88	1.71	0.59	1/2"-13	CSDBMC2.5P304ZP	CSDBMC2.5P304ZG

BASE MOUNT ROD MOUNT - CSDBMR

FOR ATTACHMENT: Hanger's rod is welded to a mounting plate or a structure (rod lengths can be supplied per specification)



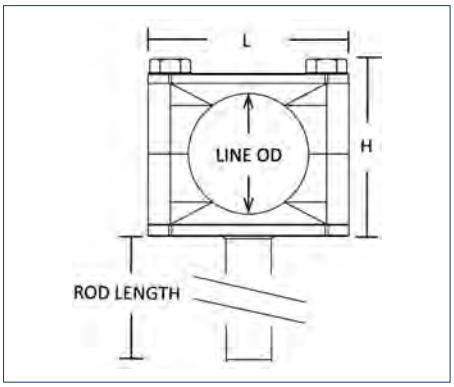


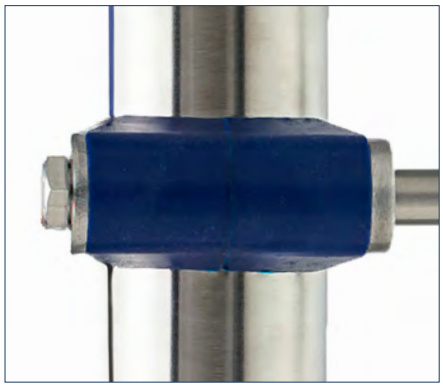
for 316 hardware substitute 304 with 316

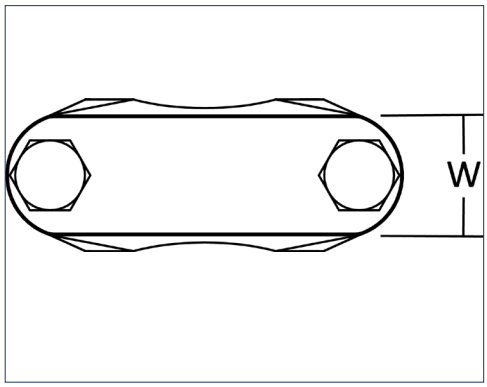
Tube Size	Line OD	H	L	PLATES W	CL	Rod (stock length)		Part Number (anchor/tight fit)	Part Number (guide/loose fit)
						Length	OD		
1/4"	0.25	1.70	1.93	0.75	0.73	6	0.38	CSDBM6R0.25T304ZP	CSDBM6R0.25T304ZG
3/8"	0.38	1.70	1.93	0.75	0.73	6	0.38	CSDBM6R0.38T304ZP	CSDBM6R0.38T304ZG
1/2"	0.50	1.70	1.93	0.75	0.73	6	0.38	CSDBM6R0.50T304ZP	CSDBM6R0.50T304ZG
3/4"	0.75	1.70	1.93	0.75	0.73	6	0.38	CSDBM6R0.75T304ZP	CSDBM6R0.75T304ZG
1"	1.00	1.70	1.93	0.75	0.73	6	0.38	CSDBM6R1.0T304ZP	CSDBM6R1.0T304ZG
1 1/2"	1.50	2.19	2.49	0.75	0.97	6	0.38	CSDBM6R1.5T304ZP	CSDBM6R1.5T304ZG
2"	2.00	2.69	2.99	0.88	1.25	6	0.38	CSDBM6R2.0T304ZP	CSDBM6R2.0T304ZG
2 1/2"	2.50	3.19	3.36	0.88	1.49	6	0.50	CSDBM6R2.5T304ZP	CSDBM6R2.5T304ZG
3"	3.00	3.97	3.99	0.88	1.85	6	0.50	CSDBM6R3.0T304ZP	CSDBM6R3.0T304ZG
Tube Size	Line OD	H	L	PLATES W	CL	Rod (stock length)		Part Number (anchor/tight fit)	Part Number (guide/loose fit)
						Length	OD		
1/2"	0.840	1.70	1.93	0.75	0.73	6	0.38	CSDBM6R0.50P304ZP	CSDBM6R0.50P304ZG
3/4"	1.050	1.70	1.93	0.75	0.73	6	0.38	CSDBM6R0.75P304ZP	CSDBM6R0.75P304ZG
1"	1.315	2.19	2.49	0.75	0.97	6	0.38	CSDBM6R1.0P304ZP	CSDBM6R1.0P304ZG
1 1/4"	1.660	2.69	2.99	0.88	1.25	6	0.38	CSDBM6R1.25P304ZP	CSDBM6R1.25P304ZG
1 1/2"	1.900	2.69	2.99	0.88	1.25	6	0.38	CSDBM6R1.5P304ZP	CSDBM6R1.5P304ZG
2"	2.375	3.19	3.36	0.88	1.49	6	0.50	CSDBM6R2.0P304ZP	CSDBM6R2.0P304ZG
2 1/2"	2.875	3.63	3.74	0.88	1.71	6	0.50	CSDBM6R2.5P304ZP	CSDBM6R2.5P304ZG

ROD MOUNT - 6” ROD TO WELD PLATE MOUNT - CSDWR

FOR ATTACHMENT: Hanger’s rod is welded to a mounting plate or a structure (rod lengths can be supplied per specification)





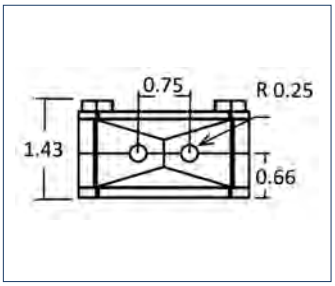


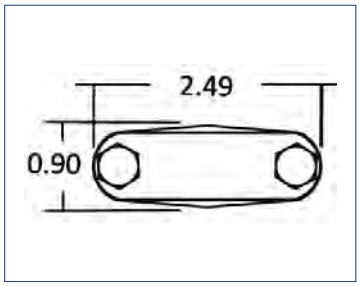
for 316 hardware substitute 304 with 316

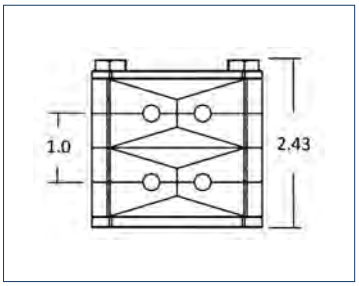
Tube Size	Line OD	H	L	PLATES W	CL	Rod (stock length)		Part Number (anchor/tight fit)	Part Number (guide/loose fit)
						Length	OD		
1 /4”	0.25	1.50	1.93	0.75	0.69	6	0.38	CSDW6R0.25T304ZP	CSDW6R0.25T304ZG
3/8”	0.38	1.50	1.93	0.75	0.69	6	0.38	CSDW6R0.38T304ZP	CSDW6R0.38T304ZG
1/2”	0.50	1.50	1.93	0.75	0.69	6	0.38	CSDW6R0.50T304ZP	CSDW6R0.50T304ZG
3/4”	0.75	1.70	1.93	0.75	0.79	6	0.38	CSDW6R0.75T304ZP	CSDW6R0.75T304ZG
1”	1.00	1.70	1.93	0.75	0.79	6	0.38	CSDW6R1.0T304ZP	CSDW6R1.0T304ZG
1 1/2”	1.50	2.16	2.49	0.75	1.03	6	0.38	CSDW6R1.5T304ZP	CSDW6R1.5T304ZG
2”	2.00	2.71	2.99	0.88	1.31	6	0.38	CSDW6R2.0T304ZP	CSDW6R2.0T304ZG
2 1/2”	2.50	3.21	3.36	0.88	1.47	6	0.50	CSDW6R2.5T304ZP	CSDW6R2.5T304ZG
3”	3.00	3.96	3.99	0.88	1.91	6	0.50	CSDW6R3.0T304ZP	CSDW6R3.0T304ZG
4”	4.00	4.82	5.10	1.00	2.30	6	0.50	CSDW6R4.0T304ZP	CSDW6R4.0T304ZG
6”	6.00	6.69	7.26	1.25	3.36	6	0.75	CSDW6R6.0T304ZP	CSDW6R6.0T304ZG
Pipe Size	Line OD	H	L	PLATES W	CL	Rod (stock length)		Part Number (anchor/tight fit)	Part Number (guide/loose fit)
						Length	OD		
1/2”	0.840	1.50	1.93	0.75	0.79	6	0.38	CSDW6R0.50P304ZP	CSDW6R0.50P304ZG
3/4”	1.050	1.50	1.93	0.75	0.79	6	0.38	CSDW6R0.75P304ZP	CSDW6R0.75P304ZG
1”	1.315	2.16	2.49	0.75	1.03	6	0.38	CSDW6R1.0P304ZP	CSDW6R1.0P304ZG
1 1/4”	1.660	2.71	2.99	0.88	1.31	6	0.38	CSDW6R1.25P304ZP	CSDW6R1.25P304ZG
1 1/2”	1.900	2.71	2.99	0.88	1.31	6	0.38	CSDW6R1.5P304ZP	CSDW6R1.5P304ZG
2”	2.375	3.21	3.36	0.88	1.47	6	0.50	CSDW6R2.0P304ZP	CSDW6R2.0P304ZG
2 1/2”	2.875	3.62	3.74	0.88	1.70	6	0.50	CSDW6R2.5P304ZP	CSDW6R2.5P304ZG
3”	3.500	4.20	4.48	1.00	2.06	6	0.50	CSDW6R3.0P304ZP	CSDW6R3.0P304ZG
4”	4.500	5.31	5.10	1.00	2.58	6	0.50	CSDW6R4.0P304ZP	CSDW6R4.0P304ZG
6”	6.625	7.19	7.73	1.25	3.60	6	0.75	CSDW6R6.0P304ZP	CSDW6R6.0P304ZG

INSTRUMENTATION LINE DUAL SUPPORT - CSDD

Offered in all CSD Series hardware mounting configurations





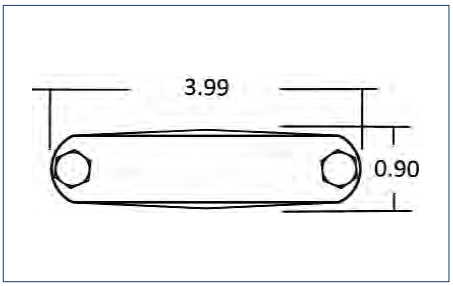


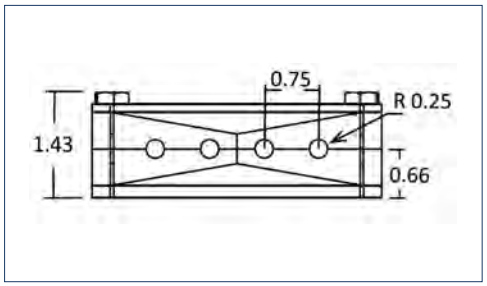
for 316 hardware substitute 304 with 316

Tube Size	Line OD	Part Number	Stack of 2 (up to 4)
1/4”	0.25	CSDWD0.25T2/304SA	CSDWD0.25T2/2/304SA

INSTRUMENTATION LINE QUAD SUPPORT - CSDQ

Offered in all CSD Series hardware mounting configurations





for 304 hardware substitute 304 with 304

Tube Size	Line OD	Part Number	Stack of 2 (up to 4, so /2/, /3/, and /4/)
1/4”	0.25	CSDWQ0.25T4/304SA	CSDWQ0.25T2/2/304SA
Cable	0.33	CSDWQ0.33T4/304SA	CSDWQ0.33T2/2/304SA
1/2”	0.50	CSDWQ0.50T4/304SA	CSDWQ0.50T2/2/304SA

INSTRUMENTATION LINE PLUGS ILP’s

Tube Size	Line OD	Part Number
1/4”	0.25	ILP025
Cable	0.33	ILP033
1/2”	0.50	ILP050

PROCESS HEX HANGERS - PHH SERIES
TUBE AND PIPE HANGERS

APPLICATIONS:
- Cleanrooms and mechanical areas, including but not limited to the biotech, pharmaceutical, food processing, beverage, dairy, cosmetic, chemical, water treatment, and semiconductor industries
- Low flow & low pressure systems with moderate vibration: WFI, SIP, CIP, process, utility & instrument lines,

SIZES:
- Support Range: 1/4" - 6" Tube and 1/2" - 6" Pipe

MATERIALS:
- 304 amd 316 stainless steels – for 316, replace 304 with 316 in the part number
- ZERO PUDDLE inserts are FDA grade silicone rubber

SPECIFICATIONS:
- Intermittent temperatures from -40F to 320F
- Continuous temperatures from -20F to 302F - Contact Syntiro with continuous application's environmental details

BENEFITS:
- ZERO PUDDLE Silicone inserts' raised geometry facilitates drainage of liquids on vertical/riser lines, reducing maintenance downtime
- Drainable and Cleanable
- No exposed threads or openings in hardware plates
- Carriage bolts lock into Hardware Frame's square hole allowing installer to use a single wrench
- The antiquated Entrapping Hex Hanger requires two wrenches, increasing safety concerns and installation time
- Carriage bolts are reversible, so rounded drainable surface is always on the hangers topside
- PHHR's hangers threads match MSS 69 rod OD requirements
- No exposed threads or openings

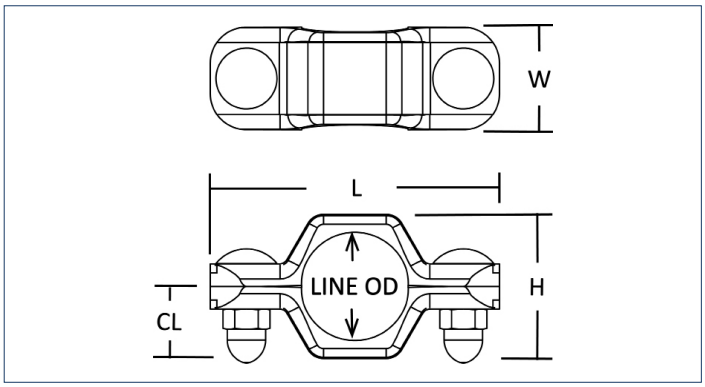
ZERO PUDDLE INSERT

If you cannot see it, reach it, clean it, or sample it, this could be a concerning pathogen harbor point.

NEW PEDESTAL 1" & 2" HIGH MOUNTS
- Offers material and labor savings
- Includes ZERO CAULK™ technology
- Also available with CSDW style

PROCESS HEX HANGER WELD MOUNT - PHHW

FOR ATTACHMENT: Mounting rod is welded to PHH's frame



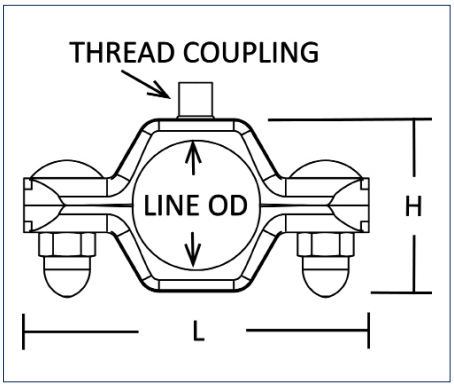
for 316 hardware substitute 304 with 316

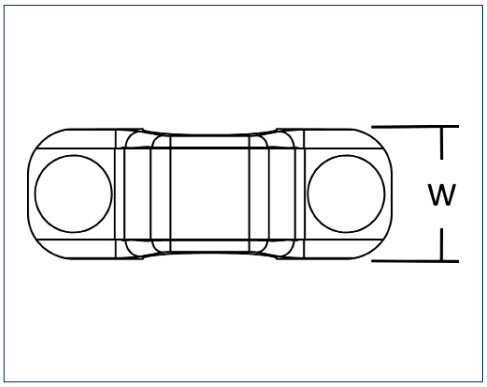
Tube Size	Line OD	H	L	W	CL	Part Number w/ Acorn Nut	Part Number w/ Lock Nut *
1/2"	0.50	1.15	2.80	1.10	0.58	PHHW0.50T304SAN	PHHW0.50T304SLN
3/4"	0.75	1.15	2.80	1.10	0.58	PHHW0.75T304SAN	PHHW0.75T304SLN
1"	1.00	1.45	3.00	1.10	0.73	PHHW1.0T304SAN	PHHW1.0T304SLN
1 1/2"	1.50	1.96	4.00	1.42	0.98	PHHW1.5T304SAN	PHHW1.5T304SLN
1 1/2"	1.50	2.16	4.00	1.42	1.08	PHHWH1.5T304SAN **	PHHWH1.5T304SLN **
2"	2.00	2.50	4.60	1.42	1.25	PHHW2.0T304SAN	PHHW2.0T304SLN
2"	2.00	2.70	4.60	1.42	1.35	PHHWH2.0T304SAN **	PHHWH2.0T304SLN **
2 1/2"	2.50	3.00	5.10	1.42	1.50	PHHW2.5T304SAN	PHHW2.5T304SLN
3"	3.00	3.50	5.60	1.42	1.75	PHHW3.0T304SAN	PHHW3.0T304SLN
4"	4.00	4.55	6.75	1.42	2.28	PHHW4.0T304SAN	PHHW4.0T304SLN
6"	6.00	6.49	9.00	1.48	3.25	PHHW6.0T304SAN	PHHW6.0T304SLN
Pipe Size	**Line OD**	**H**	**L**	**W**	**CL**	**Part Number w/ Acorn Nut**	**Part Number w/ Lock Nut ***
1/2"	0.840	1.45	3.00	1.10	0.73	PHHW0.50P304SAN	PHHW0.50P304SLN
3/4"	1.050	1.45	3.00	1.10	0.73	PHHW0.75P304SAN	PHHW0.75P304SLN
1"	1.315	1.96	4.00	1.42	0.98	PHHW1.0P304SAN	PHHW1.0P304SLN
1"	1.315	2.16	4.00	1.42	1.08	PHHWH1.0P304SAN **	PHHWH1.0P304SLN **
1 1/4"	1.660	2.50	4.60	1.42	1.25	PHHW1.25P304SAN	PHHW1.25P304SLN
1 1/4"	1.660	2.70	4.60	1.42	1.35	PHHWH1.25P304SAN **	PHHWH1.25P304SLN **
1 1/2"	1.900	2.50	4.60	1.42	1.25	PHHW1.5P304SAN	PHHW1.5P304SLN
1 1/2"	1.900	2.70	4.60	1.42	1.35	PHHWH1.5P304SAN **	PHHWH1.5P304SLN **
2"	2.375	3.00	5.10	1.42	1.50	PHHW2.0P304SAN	PHHW2.0P304SLN
2 1/2"	2.875	3.50	5.60	1.42	1.75	PHHW2.5P304SAN	PHHW2.5P304SLN
3"	3.500	4.13	6.33	1.42	2.07	PHHW3.0P304SAN	PHHW3.0P304SLN
4"	4.500	5.07	7.52	1.42	2.54	PHHW4.0P304SAN	PHHW4.0P304SLN
6"	6.625	7.20	9.25	1.74	3.60	PHHW6.0P304SAN	PHHW6.0P304SLN

** PHHWH's Hardware Frames are 7 Gauge 0.1874" - The increased thickness is preferred by some on site welders.
* Lock Nuts for lines with vibration

PROCESS HEX HANGER COUPLING - PHHC

FOR ATTACHMENT: Use Syntiro's Shielded Rod, solid rod with threaded end(s) or all thread rod





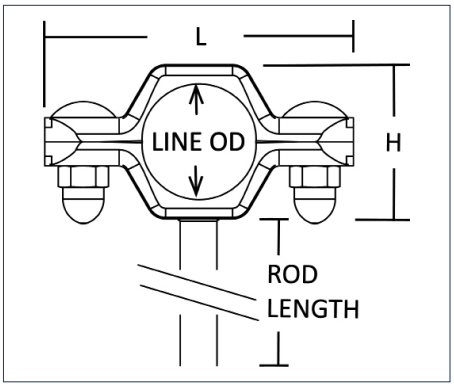
for 316 hardware substitute 304 with 316

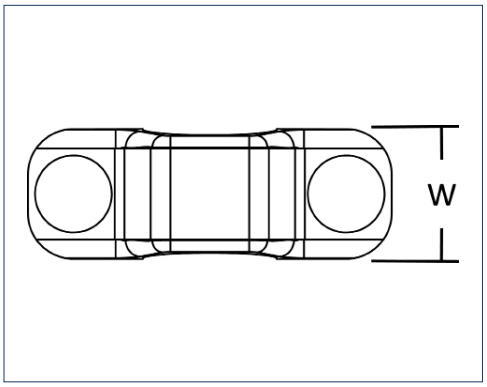
Tube Size	Line OD	H	L	W	Round Coupling		Part Number	Part Number
					Height	Thread	w/ Acorn Nut	w/ Lock Nut *
1/2"	0.50	1.15	2.80	1.10	0.50	3/8"-16	PHHC0.50T304SAN	PHHC0.50T304SLN
3/4"	0.75	1.15	2.80	1.10	0.50	3/8"-16	PHHC0.75T304SAN	PHHC0.75T304SLN
1"	1.00	1.45	3.00	1.10	0.50	3/8"-16	PHHC1.0T304SAN	PHHC1.0T304SLN
1 1/2"	1.50	1.96	4.00	1.42	0.50	3/8"-16	PHHC1.5T304SAN	PHHC1.5T304SLN
2"	2.00	2.50	4.60	1.42	0.50	3/8"-16	PHHC2.0T304SAN	PHHC2.0T304SLN
2 1/2"	2.50	3.00	5.10	1.42	0.59	1/2"-13	PHHC2.5T304SAN	PHHC2.5T304SLN
3"	3.00	3.50	5.60	1.42	0.59	1/2"-13	PHHC3.0T304SAN	PHHC3.0T304SLN
4"	4.00	4.55	6.75	1.42	0.59	1/2"-13	PHHC4.0T304SAN	PHHC4.0T304SLN
6"	6.00	6.49	9.00	1.48	0.88	3/4"-10	PHHC6.0T304SAN	PHHC6.0T304SLN
Pipe Size	Line OD	H	L	W	Round Coupling		Part Number	Part Number
					Height	Thread	w/ Acorn Nut	w/ Lock Nut *
1/2"	0.840	1.45	3.00	1.10	0.50	3/8"-16	PHHC0.50P304SAN	PHHC0.50P304SLN
3/4"	1.050	1.45	3.00	1.10	0.50	3/8"-16	PHHC0.75P304SAN	PHHC0.75P304SLN
1"	1.315	1.96	4.00	1.42	0.50	3/8"-16	PHHC1.0P304SAN	PHHC1.0P304SLN
1 1/4"	1.660	2.50	4.60	1.42	0.50	3/8"-16	PHHC1.25P304SAN	PHHC1.25P304SLN
1 1/2"	1.900	2.50	4.60	1.42	0.50	3/8"-16	PHHC1.5P304SAN	PHHC1.5P304SLN
2"	2.375	3.00	5.10	1.42	0.59	1/2"-13	PHHC2.0P304SAN	PHHC2.0P304SLN
2 1/2"	2.875	3.50	5.60	1.42	0.59	1/2"-13	PHHC2.5P304SAN	PHHC2.5P304SLN
3"	3.500	4.13	6.33	1.42	0.59	1/2"-13	PHHC3.0P304SAN	PHHC3.0P304SLN
4"	4.500	5.07	7.52	1.42	0.59	1/2"-13	PHHC4.0P304SAN	PHHC4.0P304SLN
6"	6.625	7.20	9.25	1.74	0.88	3/4"-10	PHHC6.0P304SAN	PHHC6.0P304SLN

* Lock Nuts for lines with vibration

PROCESS HEX HANGER ROD MOUNT - PHHR

FOR ATTACHMENT: Hanger's rod is welded to mounting plate or structure (rod lengths also supplied per specification)





for 316 hardware substitute 304 with 316

Tube Size	Line OD	H	L	W	Rod (stock length)		Part Number	Part Number
					Length	OD	w/ Acorn Nut	w/ Lock Nut *
1/2"	0.50	1.15	2.80	1.10	6	0.38	PHH6R0.50T304SAN	PHH6R0.50T304SLN
3/4"	0.75	1.15	2.80	1.10	6	0.38	PHH6R0.75T304SAN	PHH6R0.75T304SLN
1"	1.00	1.45	3.00	1.10	6	0.38	PHH6R1.0T304SAN	PHH6R1.0T304SLN
1 1/2"	1.50	1.96	4.00	1.42	6	0.38	PHH6R1.5T304SAN	PHH6R1.5T304SLN
2"	2.00	2.50	4.60	1.42	6	0.38	PHH6R2.0T304SAN	PHH6R2.0T304SLN
2 1/2"	2.50	3.00	5.10	1.42	6	0.50	PHH6R2.5T304SAN	PHH6R2.5T304SLN
3"	3.00	3.50	5.60	1.42	6	0.50	PHH6R3.0T304SAN	PHH6R3.0T304SLN
4"	4.00	4.55	6.75	1.42	6	0.50	PHH6R4.0T304SAN	PHH6R4.0T304SLN
6"	6.00	6.40	9.00	1.48	6	0.75	PHH6R6.0T304SAN	PHH6R6.0T304SLN
Pipe Size	Line OD	H	L	W	Rod (stock length)		Part Number	Part Number
					Length	OD	w/ Acorn Nut	w/ Lock Nut *
1/2"	0.840	1.45	3.00	1.10	6	0.38	PHH6R0.50P304SAN	PHH6R0.50P304SLN
3/4"	1.050	1.45	3.00	1.10	6	0.38	PHH6R0.75P304SAN	PHH6R0.75P304SLN
1"	1.315	1.96	4.00	1.42	6	0.38	PHH6R1.0P304SAN	PHH6R1.0P304SLN
1 1/4"	1.660	2.50	4.60	1.42	6	0.38	PHH6R1.25P304SAN	PHH6R1.25P304SLN
1 1/2"	1.900	2.50	4.60	1.42	6	0.38	PHH6R1.5P304SAN	PHH6R1.5P304SLN
2"	2.375	3.00	5.10	1.42	6	0.50	PHH6R2.0P304SAN	PHH6R2.0P304SLN
2 1/2"	2.875	3.50	5.60	1.42	6	0.50	PHH6R2.5P304SAN	PHH6R2.5P304SLN
3"	3.500	4.13	6.33	1.42	6	0.50	PHH6R3.0P304SAN	PHH6R3.0P304SLN
4"	4.500	5.07	7.52	1.42	6	0.63	PHH6R4.0P304SAN	PHH6R4.0P304SLN
6"	6.625	7.20	9.25	1.74	6	0.75	PHH6R6.0P304SAN	PHH6R6.0P304SLN

* Lock Nuts for lines with vibration

ZERO CAULK - ZC SERIES - ZCB BRACKET

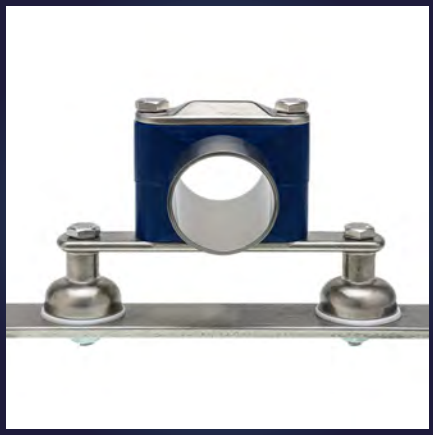
Eliminates Caulk

MOUNTING:

- Blindside - Insulated Metal Panels IMP's, Square Tubes, Framing... use Jack Nut/rivet nut
- Openside - Gypsum Board, Beams, Plates, Cement... use backside backing plate with lock nuts

APPLICATIONS:

- Cleanrooms and mechanical areas, including but not limited to the biotech, pharmaceutical, food processing, beverage, dairy, cosmetic, chemical, water treatment, and semiconductor industries.
- Access to all surfaces for cleaning, wiping, and inspection, as required under the 2011 Food Safety Modernization Act.



SIZES:

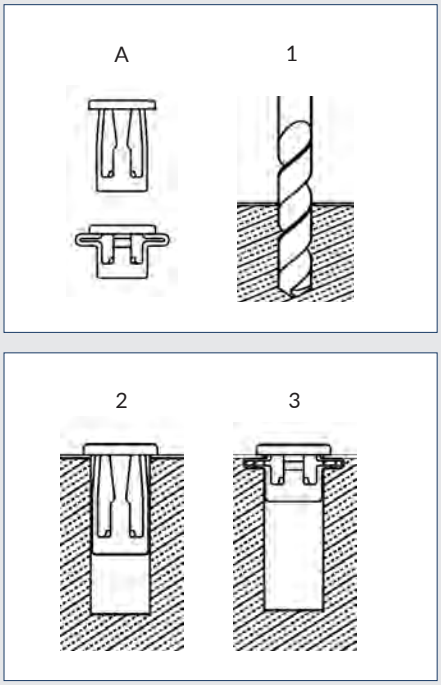
- Support Range: 1/4" - 3" Tube and 1/2" - 2" Pipe for Copper and PVC Coated Pipe and EMT Conduit
- Tight fit Anchors and loose fit Guides are offered

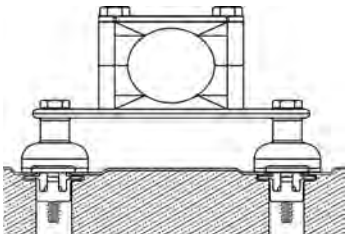
MATERIALS:

- 304 amd 316 stainless steels – for 316, replace 304 with 316 in the part number
- FDA grade Silicone Rubber Gaskets with Silver Ion/Anti-Bacterial agent

FEATURES:

- Silicone Rubber Plugs/Gasket creates a drainable and cleanable seal to surface
- Silicone Rubber Gasket eliminates the use of caulk - caulk will breakdown over time creating voids
- Silver ion additive is blended in the FDA grade Silicone Rubber Gaskets, impeding bacterial, mold, and fungus from forming on the gasket
- IPX5 certification – ensuring the bracket can withstand water jets from any direction
- One-inch bracket height – enhances the efficiency and inspectability of the washing and wipe-down process
- Jack Nut's tensile strengths are over 820 pounds
- ZERO PUDDLE Silicone inserts' raised geometry facilitates drainage of liquids on vertical/riser lines, reducing maintenance downtime





ZCB's silicone rubber plugs fill the cups/boots interior and creates a water-tight seal to the surface.

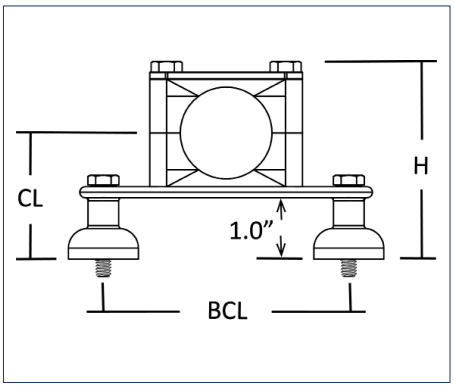
GRAPHICS: A FEW MINUTES PROCESS

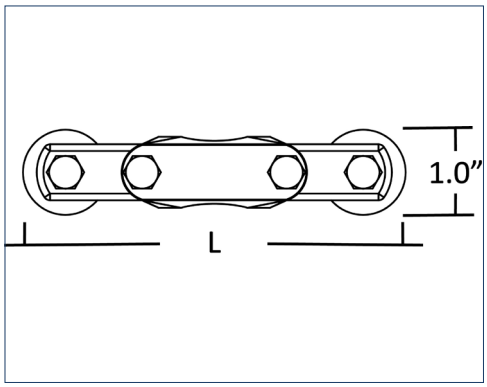
A. Stock and actuated Rivet Nut
1. Drill 7/16" hole into IMP
2. Rivet nut placed in hole
3. Rivet nut actuated and secured to IMP via MARSON, M39043 MJN-2 JACK NUT INSERT TOOL

Refer to www.syntirocorp.com or call Syntiro for most up to date information

ZERO CAULK BRACKET - ZCB

Silicone rubber gasket seals to surfaces, no gaps





Tube Size	Line OD	H	L	W	CL	BCL	Part Number (anchor/tight fit)	Part Number (guide/loose fit)
1/4”	0.25	2.87	4.77	1.00	1.78	4.00	ZCB0.25T304ZP4.0	ZCB0.25T304ZG4.0
3/8”	0.38	2.87	4.77	1.00	1.88	4.00	ZCB0.38T304ZP4.0	ZCB0.38T304ZG4.0
1/2”	0.50	2.87	4.77	1.00	1.88	4.00	ZCB0.50T304ZP4.0	ZCB0.50T304ZG4.0
3/4”	0.75	2.87	4.77	1.00	1.88	4.00	ZCB0.75T304ZP4.0	ZCB0.75T304G4.0
1”	1.00	2.87	4.77	1.00	1.88	4.00	ZCB1.0T304ZP4.0	ZCB1.0T304ZG4.0
1 1/2”	1.50	3.37	4.77	1.00	2.13	4.00	ZCB1.5T304ZP4.0	ZCB1.5T304ZG4.0
2”	2.00	3.89	4.77	1.00	2.38	4.00	ZCB2.0T304ZP4.0	ZCB2.0T304G4.0
2 1/2”	2.50	4.39	4.48	1.00	2.58	4.50	ZCB2.5T304ZP	ZCB2.5T304ZG
3”	3.00	5.11	5.48	1.00	2.95	5.22	ZCB3.0T304ZP	ZCB3.0T30G4G
Pipe Size	Line OD	H	L	W	CL	BCL	Part Number (anchor/tight fit)	Part Number (guide/loose fit)
1/2”	0.840	2.87	4.77	1.00	1.875	4.00	ZCB0.50P304ZP4.0	ZCB0.50P304ZG4.0
3/4”	1.050	2.87	4.77	1.00	1.875	4.00	ZCB0.75P304ZP4.0	ZCB0.75P304ZG4.0
1”	1.315	3.37	4.77	1.00	2.125	4.00	ZCB1.0P304ZP4.0	ZCB1.0P304ZG4.0
1 1/4”	1.660	3.89	4.77	1.00	2.375	4.00	ZCB1.25P304ZP4.0	ZCB1.25P304ZG4.0
1 1/2”	1.900	3.89	4.77	1.00	2.375	4.00	ZCB1.5P304ZP4.0	ZCB1.5P304ZG4.0
2”	2.375	4.39	4.48	1.00	2.575	4.50	ZCB2.0P304ZP	ZCB2.0P304ZG

ZERO CAULK - ZC SERIES - ZCUB UNIVERSAL BRACKET

Eliminates Caulk

MOUNTING:

- Blindside Walls - Insulated Metal Panels IMP's, Square Tubes, Framing... use Jack Nut/rivet nut
- Openside Walls - Cleanroom Wall Panels, Gypsum Board, Beams, Plates, Cement... use backside backing plate with lock nuts

APPLICATIONS:

- Cleanrooms and mechanical areas, including but not limited to the biotech, pharmaceutical, food processing, beverage, dairy, cosmetic, chemical, water treatment, and semiconductor industries.
- Access to all surfaces for cleaning, wiping, and inspection, as required under the 2011 Food Safety Modernization Act.

SIZES:

- Support Range: 1/4" - 2" Tube and 1/2" - 1 1/2" Pipe for Copper and PVC Coated Pipe and EMT Conduit
- Tight fit Anchors and loose fit Guides are offered in CSD Series
- Offered with eith CSDW or PHHW housings welded to 3/8" OD rod

MATERIALS:

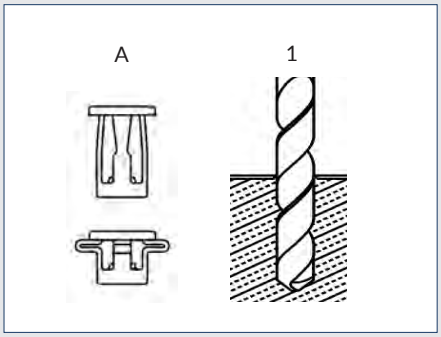
- 304 amd 316 stainless steels – for 316, replace 304 with 316 in the part number
- FDA grade Silicone Rubber Gaskets with Silver Ion/Anti-Bacterial agent

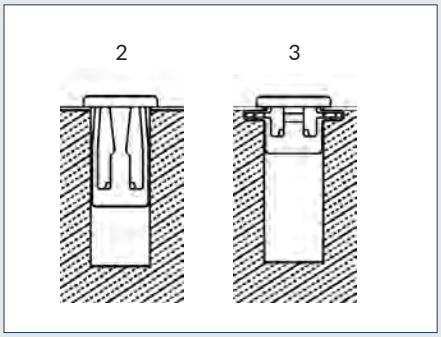
FEATURES:

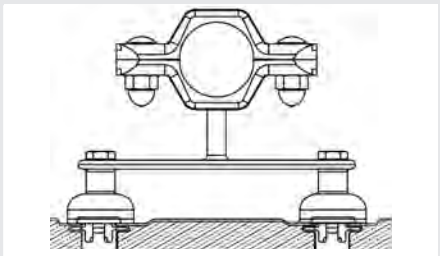
- Silicone Rubber Gasket eliminates the use of caulk - caulk will breakdown over time creating voids
- Silicone Rubber Plugs/Gasket creates a drainable and cleanable seal to surface
- Silver ion additive is blended in the FDA grade Silicone Rubber Gaskets, impeding bacterial, mold, and fungus from forming on the gasket
- IPX5 certification – ensuring the bracket can withstand water jets from any direction
- One-inch bracket height – enhances the efficiency and inspectability of the washing and wipe-down process
- ZERO PUDDLE Silicone inserts' raised geometry facilitates drainage of liquids on vertical/riser lines, reducing maintenance downtime

GRAPHICS: A FEW MINUTES PROCESS

A. Stock and actuated Rivet Nut
1. Drill 7/16" hole into IMP
2. Rivet nut placed in hole
3. Rivet nut actuated and secured to IMP via MARSON, M39043 MJN-2 JACK NUT INSERT TOOL





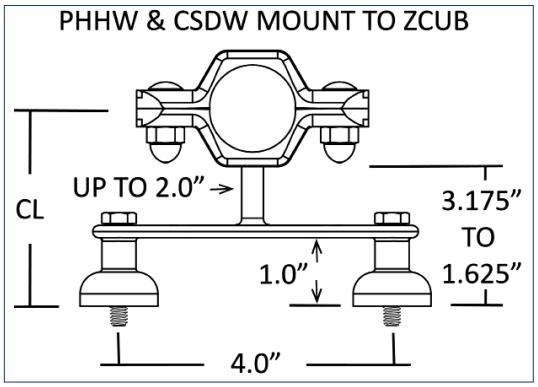


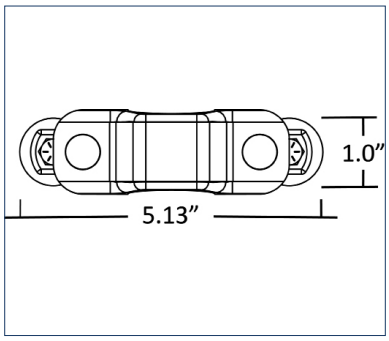
ZCUB's silicone rubber plugs fill the cups/boots interior and creates a water-tight seal to the surface.

Refer to www.syntirocorp.com or call Syntiro for most up to date information

ZERO CAULK UNIVERSAL MOUNT BRACKET - ZCUB

Silicone rubber gasket seals to surfaces, no gaps



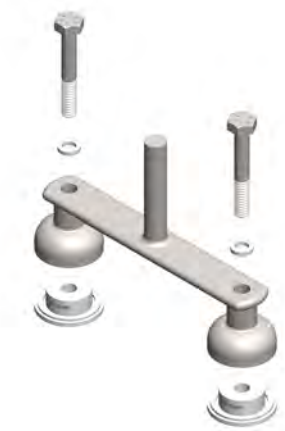


Tube Size	Line OD	Center Line **	Hanger Housing Type	Tube or Pipe Direction	Part Number (anchor/tight fit)
1/2"	0.50	?.??	When Building Part Number ZCUBC when CSDW is welded to rod & ZCUBP when PHHW is welded to rod	(P) Perpendicular/Criss Cross or (H) Horizontal/In Line to ZCUP's Mounting Bolts	ZCUBP0.50T304CL?.??P or H
3/4"	0.75	?.??			ZCUBP0.75T304CL?.??P or H
1"	1.00	?.??			ZCUBP1.0T304CL?.??P or H
1 1/2"	1.50	?.??			ZCUBP1.5T304CL?.??P or H
2"	2.00	?.??			ZCUBP2.0T304CL?.??P or H

** CENTERLINE length ?.?? is supplied by customer in inches.
Supporting 1/2" OD Tube at a 2.5" CL with tube's line of direction HORIZONTAL/IN-LINE with ZCUB's Mounting Bolts = ZCUBP0.50T304CL2.5H

Pipe Size	Line OD	Center Line **	Hanger Housing Type	Tube or Pipe Direction	Part Number (anchor/tight fit)
1/2"	0.840	?.??	When Building Part Number ZCUBC when CSDW is welded to rod & ZCUBP when PHHW is welded to rod	(P) Perpendicular/Criss Cross or (H) Horizontal/In Line to ZCUP's Mounting Bolts	ZCUBP0.50P304CL?.??P or H
3/4"	1.050	?.??			ZCUBP0.75P304CL?.??P or H
1"	1.315	?.??			ZCUBP1.0P304CL?.??P or H
1 1/4"	1.660	?.??			ZCUBP1.5P304CL?.??P or H
1 1/2"	1.900	?.??			ZCUBP2.0P304CL?.??P or H

** CENTERLINE length ?.?? is supplied by customer in inches.
Supporting 1" Pipe at a 2.25" CL with Pipe's line of direction PERPENDICULAR/CRISS CROSS with ZCUB's Mounting Bolts = ZCUBP1.0P304CL2.25P



ZERO CAULK UNIVERSAL BRACKET w/ 2 GASKETS

Part Number:
ZCUB2R038-304

Rod Length - 2"
Rod OD - 0.375"

ZERO CAULK - ZC SERIES - ZCUP MINI UNIVERSAL MOUNTING PLATE

Eliminates Caulk, silicone rubber gasket seals to surfaces, no gaps

MOUNTING:

- Blindside Walls - Insulated Metal Panels IMP's, Square Tubes, Framing... use Jack Nut/rivet nut
- Openside Walls - Cleanroom Wall Panels, Gypsum Board, Beams, Plates, Cement... use backside backing plate with lock nuts

APPLICATIONS:

- Cleanrooms and mechanical areas, including but not limited to the biotech, pharmaceutical, food processing, beverage, dairy, cosmetic, chemical, water treatment, and semiconductor industries.
- Access to all surfaces for cleaning, wiping, and inspection, as required under the 2011 Food Safety Modernization Act.

SIZES:

- Support Range: 1/4" - 2" Tube and 1/2" - 2" Pipe for Copper and PVC Coated Pipe and EMT Conduit
- Tight fit Anchors and loose fit Guides are offered in CSD Series

MATERIALS:

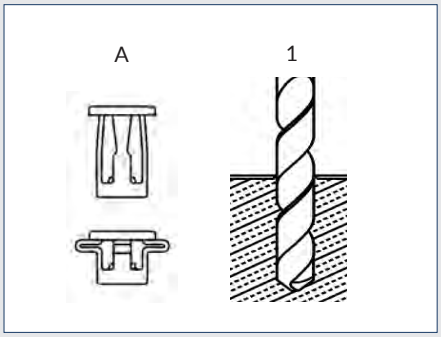
- 304 and 316 stainless steels – for 316, replace 304 with 316 in the part number
- FDA grade Silicone Rubber Gaskets with Silver Ion/Anti-Bacterial agent

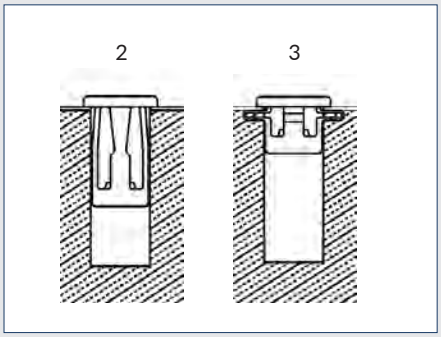
FEATURES:

- Silicone Rubber Gasket eliminates the use of caulk - caulk will breakdown over time creating voids
- Silicone Rubber Plugs/Gasket creates a drainable and cleanable seal to surface
- Silver ion additive is blended in the FDA grade Silicone Rubber Gaskets, impeding bacterial, mold, and fungus from forming on the gasket
- IPX5 certification – ensuring the bracket can withstand water jets from any direction
- One-inch bracket height – enhances the efficiency and inspectability of the washing and wipe-down process
- ZERO PUDDLE Silicone inserts' raised geometry facilitates drainage of liquids on vertical/riser lines, reducing maintenance downtime

GRAPHICS: A FEW MINUTES PROCESS

A. Stock and actuated Rivet Nut
1. Drill 7/16" hole into IMP
2. Rivet nut placed in hole
3. Rivet nut actuated and secured to IMP via MARSON, M39043 MJN-2 JACK NUT INSERT TOOL



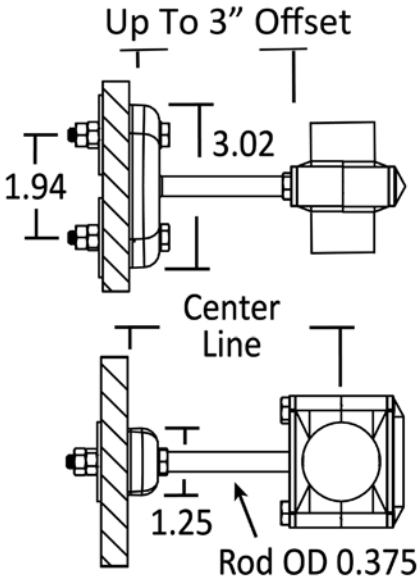


ZCUP1 silicone rubber plug fills the ZCUP2's interior and creates a seal to the surface

Refer to www.syntirocorp.com or call Syntiro for most up to date information

ZCUP MINI UNIVERSAL MOUNTING PLATE

- Mount CSD & PHH Series of hangers
- Rod length can be decreased or increased



Tube Size	Line OD	Center Line **	Hanger Housing Type	Tube or Pipe Direction	Part Number (anchor/tight fit) Guides are available with CSDWs
1/4"	0.25	?.??	When Building Part Number ZCUPMC when CSDW is welded to rod & ZCUPMP when PHHW is welded to rod	(P) When the Tube Runs Perpendicular/Criss Cross to the ZCUP's Mounting Boltd or (H) When the Tube Runs Horizontal/In Line to the ZCUP's Mounting Bolts	** ZCUPMC0.25T304CL?.??P or H
3/8"	0.38	?.??			** ZCUPMC0.38T304CL?.??P or H
1/2"	0.50	?.??			ZCUPM(C or P)0.50T304CL?.??P or H
3/4"	0.75	?.??			ZCUPM(C or P)0.75T304CL?.??P or H
1"	1.00	?.??			ZCUPM(C or P)C1.0T304CL?.??P or H
1 1/2"	1.50	?.??			ZCUPM(C or P)1.5T304CL?.??P or H
2"	2.00	?.??			ZCUPM(C or P)2.0T304CL?.??P or H
Pipe Size	**Line OD**	**Center Line ****	**Hanger Housing Type**	**Tube or Pipe Direction**	**Part Number (anchor/tight fit) Guides are available with CSDWs**
1/2"	0.840	?.??	When Building Part Number ZCUPMC when CSDW is welded to rod & ZCUPMP when PHHW is welded to rod	(P) When the Pipe Runs Perpendicular/Criss Cross to the ZCUP's Mounting Boltd or (H) When the Pipe Runs Horizontal/In Line to the ZCUP's Mounting Bolts	ZCUPM(C or P)0.50P304CL?.??P or H
3/4"	1.050	?.??			ZCUPM(C or P)0.75P304CL?.??P or H
1"	1.315	?.??			ZCUPM(C or P)1.0P304CL?.??P or H
1 1/2"	1.900	?.??			ZCUPM(C or P)1.5P304CL?.??P or H
CENTERLINE length ?.?? is supplied by customer in inches. Supporting 3/4" OD Tube at a 2.10" CL with Tube's line of direction HORIZONTAL/IN-LINE with ZCUB's Mounting Bolts = ZCUPMC0.75T304CL2.10H					
CENTERLINE length ?.?? is supplied by customer in inches. Supporting 0.75" Pipe at a 1.5" CL with Pipe's line of direction PERPENDICULAR/CRISS CROSS with ZCUB's Mounting Bolts = ZCUPMP0.75P304CL1.5P					

** 1/4" and 3/8" tube sizes are not available in PHH style hangers

ZERO CAULK - ZC SERIES - ZCUP UNIVERSAL MOUNTING PLATE

Eliminates Caulk, silicone rubber gasket seals to surfaces, no gaps

MOUNTING:

- Blindside Walls - Insulated Metal Panels IMP's, Square Tubes, Framing... use Jack Nut/rivet nut
- Openside Walls - Cleanroom Wall Panels, Gypsum Board, Beams, Plates, Cement... use backside backing plate with lock nuts

APPLICATIONS:

- Cleanrooms and mechanical areas, including but not limited to the biotech, pharmaceutical, food processing, beverage, dairy, cosmetic, chemical, water treatment, and semiconductor industries.
- Access to all surfaces for cleaning, wiping, and inspection, as required under the 2011 Food Safety Modernization Act.

SIZES:

- Support Range: 1/4" - 3" Tube and 1/2" - 2 1/2" Pipe for Copper and PVC Coated Pipe and EMT Conduit
- Tight fit Anchors and loose fit Guides are offered in CSD Series

MATERIALS:

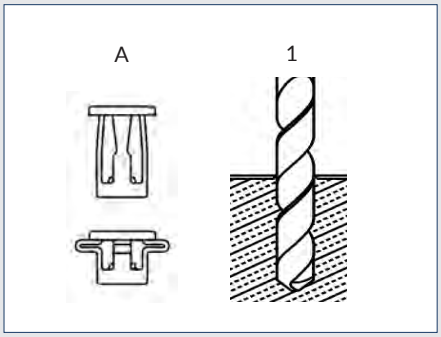
- 304 and 316 stainless steels – for 316, replace 304 with 316 in the part number
- FDA grade Silicone Rubber Gaskets with Silver Ion/Anti-Bacterial Agent

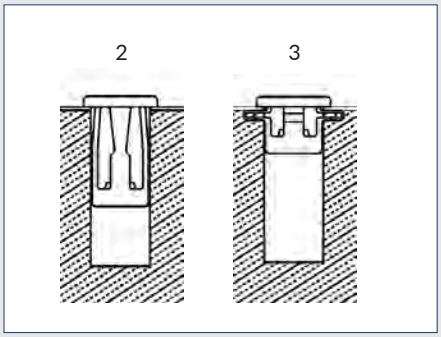
FEATURES:

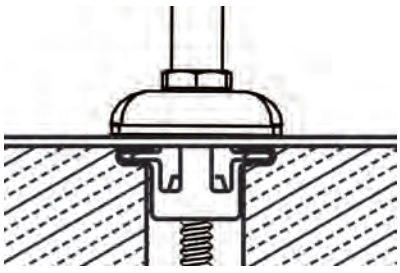
- Silicone Rubber Gasket eliminates the use of caulk - caulk will breakdown over time creating voids
- Silicone Rubber Plugs/Gasket creates a drainable and cleanable seal to surface
- Silver ion additive is blended in the FDA grade Silicone Rubber Gaskets, impeding bacterial, mold, and fungus from forming on the gasket
- IPX5 certification – ensuring the bracket can withstand water jets from any direction
- One-inch bracket height – enhances the efficiency and inspectability of the washing and wipe-down process
- ZERO PUDDLE Silicone inserts' raised geometry facilitates drainage of liquids on vertical/riser lines, reducing maintenance downtime

GRAPHICS: A FEW MINUTES PROCESS

A. Stock and actuated Rivet Nut
1. Drill 7/16" hole into IMP
2. Rivet nut placed in hole
3. Rivet nut actuated and secured to IMP via MARSON, M39043 MJN-2 JACK NUT INSERT TOOL





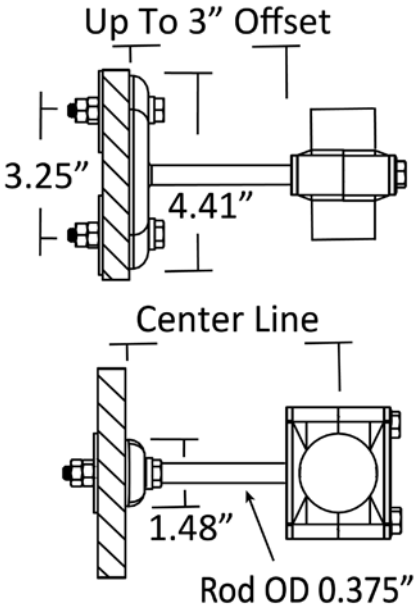


ZCUP2 silicone rubber plug fills the ZCUP2's interior and creates a seal to the surface.

Refer to www.syntirocorp.com or call Syntiro for most up to date information

ZCUP UNIVERSAL MOUNTING PLATE

- Mount CSD & PHH Series of hangers
- Rod length can be decreased or increased



Tube Size	Line OD	Center Line **	Hanger Housing Type	Tube or Pipe Direction	Part Number (anchor/tight fit) Guides are available with CSDWs
1/4”	0.25	?.??	When Building Part Number ZCUPC when CSDW is welded to rod & ZCUPP when PHHW is welded to rod	(P) When the Tube Runs Perpendicular/Criss Cross to the ZCUP’s Mounting Boltd or (H) When the Tube Runs Horizontal/In Line to the ZCUP’s Mounting Bolts	** ZCUPC0.25T304CL?.??P or H
3/8”	0.38	?.??			** ZCUPC0.38T304CL?.??P or H
1/2”	0.50	?.??			ZCUP(C or P)0.50T304CL?.??P or H
3/4”	0.75	?.??			ZCUP(C or P)0.75T304CL?.??P or H
1”	1.00	?.??			ZCUP(C or P)C1.0T304CL?.??P or H
1 1/2”	1.50	?.??			ZCUP(C or P)1.5T304CL?.??P or H
2”	2.00	?.??			ZCUP(C or P)2.0T304ZP?.??P or H
2 1/2”	2.50	?.??			ZCUP(C or P)2.5T304ZP?.??P or H
3”	3.00	?.??			ZCUP(C or P)3.0T304ZP?.??P or H
Pipe Size	**Line OD**	**Center Line ****	**Hanger Housing Type**	**Tube or Pipe Direction**	**Part Number (anchor/tight fit) Guides are available with CSDWs**
1/2”	0.840	?.??	When Building Part Number ZCUPC when CSDW is welded to rod & ZCUPP when PHHW is welded to rod	(P) When the Pipe Runs Perpendicular/Criss Cross to the ZCUP’s Mounting Boltd or (H) When the Pipe Runs Horizontal/In Line to the ZCUP’s Mounting Bolts	ZCUP(C or P)0.50P304CL?.??P or H
3/4”	1.050	?.??			ZCUP(C or P)0.75P304CL?.??P or H
1”	1.315	?.??			ZCUP(C or P)1.0P304CL?.??P or H
1.25”	1.660	?.??			ZCUP(C or P)1.25P304CL?.??P or H
1 1/2”	1.900	?.??			ZCUP(C or P)1.5P304CL?.??P or H
2”	2.375	?.??			ZCUP(C or P)2.0P304CL?.??P or H
2 1/2”	2.875	?.??			ZCUP(C or P)2.5P304CL?.??P or H
CENTERLINE length ?.?? is supplied by customer in inches. Supporting 3/4” OD Tube at a 2.125” CL with Tube’s line of direction HORIZONTAL/IN-LINE with ZCUB’s Mounting Bolts = ZCUP2C0.75T304CL2.125H					
CENTERLINE length ?.?? is supplied by customer in inches. Supporting 1.0” Pipe at a 1.5” CL with Pipe’s line of direction PERPENDICULAR/CRISS CROSS with ZCUB’s Mounting Bolts = ZCUP2P1.0P304CL1.25P					

**** 1/4” and 3/8” tube sizes are not available in PHH style hangers**

ZERO CAULK SPACERS - ZCS Series

Eliminates Caulk

MOUNTING:

- Blindside Walls - Insulated Metal Panels IMP's, Square Tubes, Framing... use Jack Nut/rivet nut
- Openside Walls - Cleanroom Wall Panels, Gypsum Board, Beams, Plates, Cement... use backside backing plate with lock nuts

APPLICATIONS:

- Cleanrooms and mechanical areas, including but not limited to the biotech, pharmaceutical, food processing, beverage, dairy, cosmetic, chemical, water treatment, and semiconductor industries.
- Low flow & low pressure systems with moderate vibration: WFI, SIP, CIP, process, utility & instrument lines, WFI, SIP, CIP, process, utilities & instrument lines
- The use of spacers enables access to all surfaces for cleaning, wiping, and inspection, as required under the 2011 Food Safety Modernization Act.

SIZES:

- Support Range: 1/4" - 2" Tube and 1/2" - 1 1/2" Pipe for Copper and PVC Coated Pipe and EMT Conduit
- Tight fit Anchors and loose fit Guides are offered in CSD Series

MATERIALS:

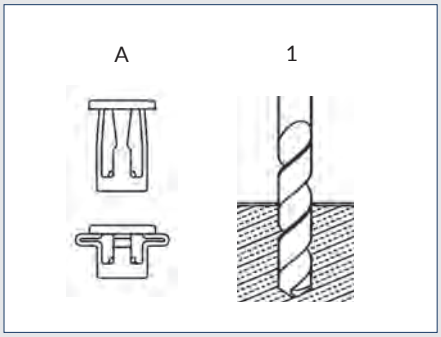
- 304 and 316 stainless steels – for 316, replace 304 with 316 in the part number
- FDA grade Silicone Rubber Gaskets with Silver ion additive

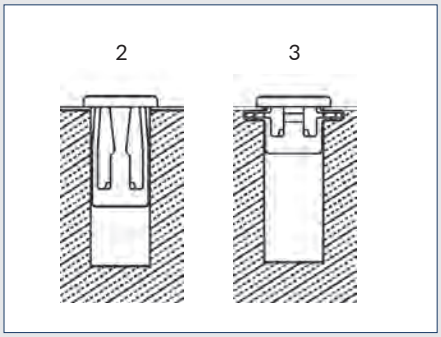
FEATURES:

- Silicone Rubber Gasket eliminates the use of caulk - caulk will breakdown over time creating voids
- Silicone Rubber Plug/Gasket creates a drainable and cleanable seal to surface
- Silver ion additive is blended in the FDA grade Silicone Rubber Gaskets, impeding bacterial, mold, fungus from forming on the gasket
- Jack Nut's tensile strengths are over 820 pounds

GRAPHICS: A FEW MINUTES PROCESS

A. Stock and actuated Rivet Nut
1. Drill 7/16" hole into IMP
2. Rivet nut placed in hole
3. Rivet nut actuated and secured to IMP via MARSON, M39043 MJN-2 JACK NUT INSERT TOOL



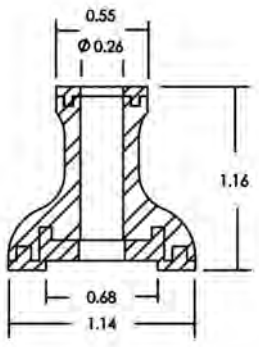


Refer to www.syntirocorp.com or call Syntiro for most up to date information

ZERO CAULK 1” & 2” WALL TO COMPONENT - ZCS, SPACERS

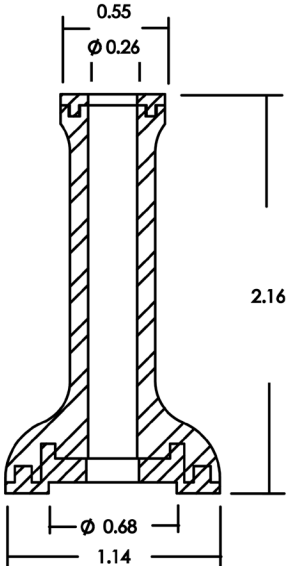
Silicone rubber gasket seals to surfaces, no gaps

ZC1S-025-304
1” SPACER
UP TO 1/4” THREAD

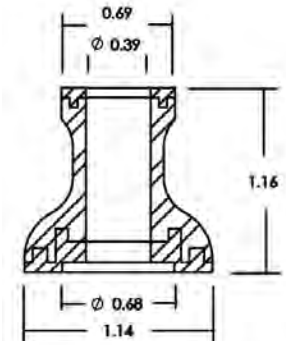


ZC1S-025-304
with Jack Nut

ZC2S-025-304
2” SPACER
UP TO 1/4” THREAD

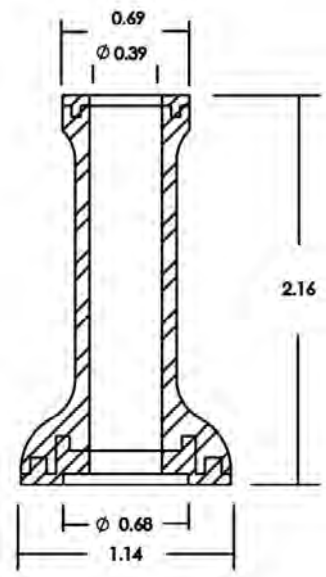


ZC1S-038-304
1” SPACER
UP TO 3/8” THREAD
with 1/4” Gasket
ZC1S-038-025-304



ZC2S-038-025-304
3/8” Hole with 1/4”
Sealing Plugs

ZC2S-038-304
2” SPACER
UP TO 3/8” THREAD
with 1/4” Gasket
ZC2S-038-025-304



ZERO CAULK - ZC SERIES - 1” & 2” PEDESTAL w/ CSD HANGERS

Eliminates Caulk

MOUNTING:

- Blindside Walls - Insulated Metal Panels IMP’s, Square Tubes, Framing... use Jack Nut/rivet nut
- Openside Walls- Cleanroom Wall Panels, Gypsum Board, Beams, Plates, Cement... use backside backing plate with lock nuts

APPLICATIONS:

- Cleanrooms and mechanical areas, including but not limited to the biotech, pharmaceutical, food processing, beverage, dairy, cosmetic, chemical, water treatment, and semiconductor industries
- Low flow & low pressure systems with moderate vibration: WFI, SIP, CIP, process, utility & instrument lines, WFI, SIP, CIP, process, utilities & instrument lines
- The use of spacers enables access to all surfaces for cleaning, wiping, and inspection, as required under the 2011 Food Safety Modernization Act.

SIZES:

- Support Range: 1/4” - 2” Tube and 1/2” - 1 1/2” Pipe for Copper and PVC Coated Pipe and EMT Conduit
- Tight fit Anchors and loose fit Guides are offered

MATERIALS:

- 304 and 316 stainless steels – for 316, replace 304 with 316 in the part number
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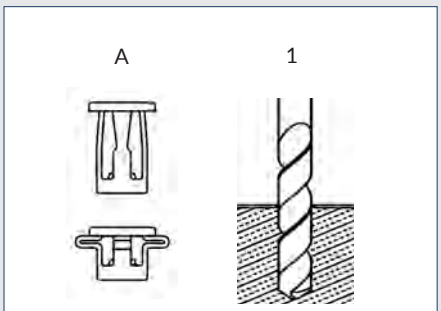
FEATURES:

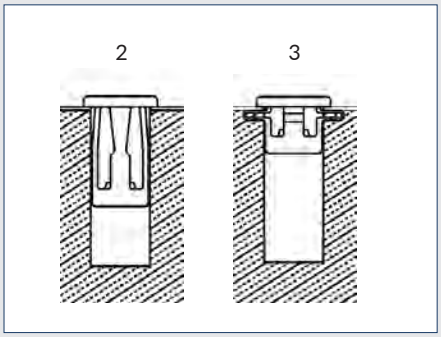
- Silicone Rubber Gasket eliminates the use of caulk - caulk will breakdown over time creating voids
- Silicone Rubber Gasket creates a drainable and cleanable seal to surface
- Silver ion additive is blended in the FDA grade Silicone Rubber Gaskets, effectively preventing the growth of bacteria, mold, and fungi
- Zero Caulk Spacer is welded to the hangers’s housings hardware
- Jack Nut’s tensile strength is over 820 pounds
- ZERO PUDDLE Silicones inserts raised geometry facilitates drainage of liquids on vertical/riser lines, reducing maintenance downtime.

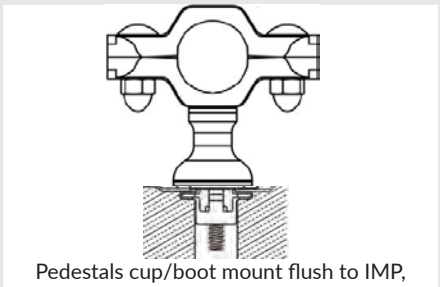
GRAPHICS: A FEW MINUTE PROCES

A. Stock and actuated Rivet Nut
1. Drill 7/16” hole into IMP
2. Rivet nut placed in hole
3. Rivet nut actuated and secured to IMP via Recommended jack nut installation tool: MARSON, M39043 MJN-2

Refer to www.syntirocorp.com or call Syntiro for most up to date information



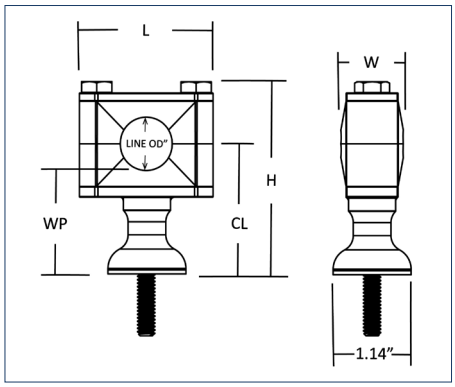




Pedestals cup/boot mount flush to IMP, encasing rivet nut while silicone rubber gasket create a seal

ZERO CAULK - ZC SERIES - 1” & 2” PEDESTAL w/ CSD HANGERS

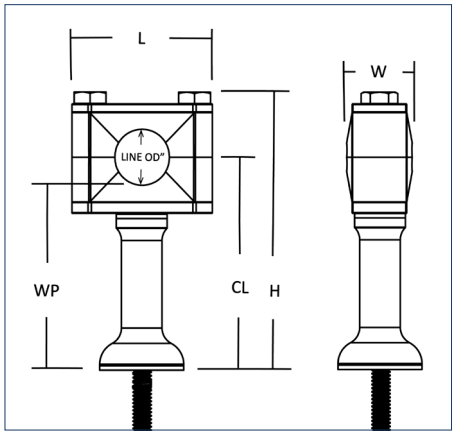
Silicone rubber gasket seals to surfaces, no gaps



** 2” & 3” section of 1/4”-20 thread are standards, other lenghts are available

Tube Size	Line OD	H		L	W	CL		WP		1” Spacer - Part Number (tight fit)	2” Spacer - Part Number (tight fit)
		1”	2”			1”	2”	1”	2”		
1/4”	0.25	2.34	3.34	1.93	0.75	1.74	2.74	1.63	2.63	ZC1PC0.25T304ZP	ZC2PC0.25T304ZP
3/8”	0.38	2.34	3.34	1.93	0.75	1.74	2.74	1.56	2.56	ZC1PC0.38T304ZP	ZC2PC0.38T304ZP
1/2”	0.50	2.34	3.34	1.93	0.75	1.82	2.82	1.50	2.50	ZC1PC0.50T304ZP	ZC2PC0.50T304ZP
3/4”	0.75	2.57	3.57	1.93	0.75	1.85	2.85	1.52	2.52	ZC1PC0.75T304ZP	ZC2PC0.75T304ZP
1”	1.00	2.57	3.57	1.93	0.75	1.85	2.85	1.28	2.28	ZC1PC1.0T304ZP	ZC2PC1.0T304ZP
1 1/2”	1.50	3.06	4.06	2.49	0.75	2.11	3.11	1.36	2.36	ZC1PC1.5T304ZP	ZC2PC1.50T304ZP
2”	2.00	3.58	4.58	2.99	0.88	2.35	3.35	1.39	2.39	ZC1PC2.0T304ZP *	ZC2PC2.0T304ZP *
Pipe Size	Line OD	H		L	W	CL		WP		1” Spacer - Part Number (tight fit)	2” Spacer - Part Number (tight fit)
		1”	2”			1”	2”	1”	2”		
1/2”	0.840	2.63	3.63	1.93	0.75	1.88	2.88	1.52	2.52	ZC1PC0.50P304ZP	ZC2PC0.50P304ZP
3/4”	1.050	2.63	3.63	1.93	0.75	1.88	2.88	1.33	2.33	ZC1PC0.75P304ZP	ZC2PC0.75304ZP
1”	1.315	3.07	4.07	2.49	0.75	2.15	3.15	1.52	2.52	ZC1PC1.0P304ZP	ZC2PC1.0P304ZP
1 1/4”	1.660	3.65	4.65	2.99	0.88	2.39	3.39	1.57	2.57	ZC1PC1.25P304ZP *	ZC2PC.25P304ZP *
1 1/2”	1.900	3.65	4.65	2.99	0.88	2.39	3.39	1.45	3.45	ZC1PC1.5P304ZP *	ZC2PC1.5P304ZP *

* On long vertical runs, a ZCUB should be considered for installation as an anchor



ZERO CAULK - ZC SERIES - 1” and 2” PEDESTAL w/ PHH HANGERS

Eliminates Caulk

MOUNTING:

- Blindside Walls - Insulated Metal Panels IMP’s, Square Tubes, Framing... use Jack Nut/rivet nut
- Openside Walls- Cleanroom Wall Panels, Gypsum Board, Beams, Plates, Cement... use backside backing plate with lock nuts

APPLICATIONS:

- Cleanrooms and mechanical areas, including but not limited to the biotech, pharmaceutical, food processing, beverage, dairy, cosmetic, chemical, water treatment, and semiconductor industries
- Low flow & low pressure systems with moderate vibration: WFI, SIP, CIP, process, utility & instrument lines, WFI, SIP, CIP, process, utilities & instrument lines
- The use of spacers enables access to all surfaces for cleaning, wiping, and inspection, as required under the 2011 Food Safety Modernization Act.

SIZES:

- Support Range: 1/4” - 2” Tube and 1/2” - 1 1/2” Pipe

MATERIALS:

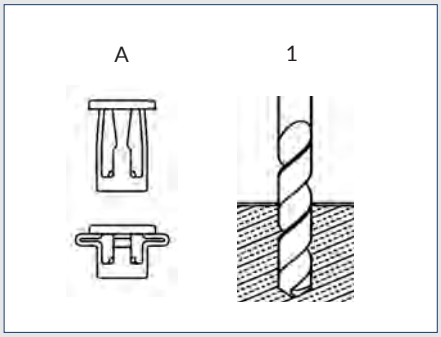
- 304 and 316 stainless steels – for 316, replace 304 with 316 in the part number
- FDA grade Silicone Rubber Gaskets with Silver ion additive

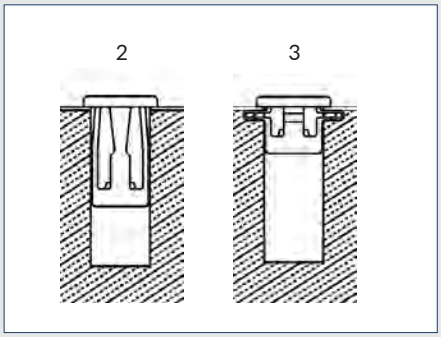
FEATURES:

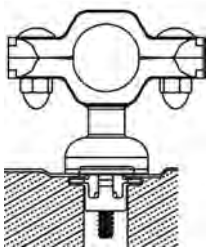
- Silicone Rubber Gasket eliminates the use of caulk - caulk will breakdown over time creating voids
- Silicone Rubber Gasket creates a drainable and cleanable seal to surface
- Silver ion additive is blended in the FDA grade Silicone Rubber Gaskets, effectively preventing the growth of bacteria, mold, and fungi
- Zero Caulk Spacer is welded to the hangers’s housings hardware
- Jack Nut’s tensile strength is over 820 pounds
- ZERO PUDDLE Silicones inserts raised geometry facilitates drainage of liquids on vertical/riser lines, reducing maintenance downtime.
- There are no exposed threads or openings

GRAPHICS: A FEW MINUTE PROCES

A. Stock and actuated Rivet Nut
1. Drill 7/16” hole into IMP
2. Rivet nut placed in hole
3. Rivet nut actuated and secured to IMP via Recommended jack nut installation tool: MARSON, M39043 MJN-2





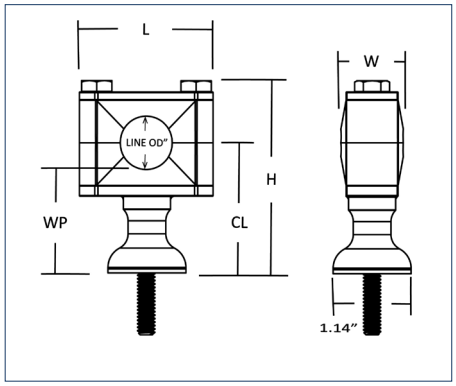


Bracket’s cups/boots mount flush to IMP, encasing rivet nut while silicone rubber gasket creating a seal

Refer to www.syntirocorp.com or call Syntiro for most up to date information

ZERO CAULK - ZC SERIES - 1” and 2” PEDESTAL w/ PHH HANGERS

Silicone rubber gasket seals to surfaces, no gaps

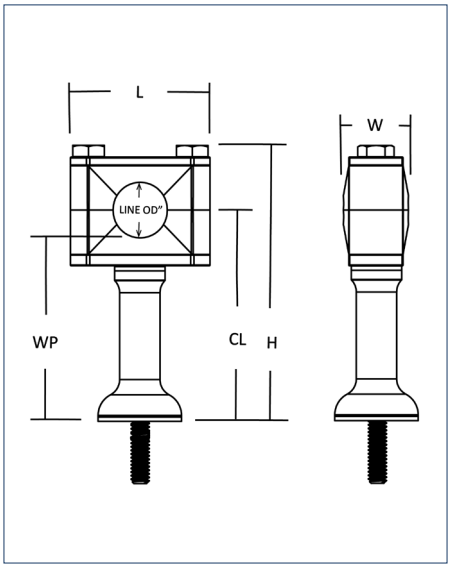


** 2” & 3” section of 1/4”-20 thread is standard, other lenghts are available

Tube Size	Line OD	H		L	W	CL		WP		1” Spacer - Part Number (tight fit)	2” Spacer - Part Number (tight fit)
		1”	2”			1”	2”	1”	2”		
1/2”	0.50	2.28	3.28	3.00	1.10	1.65	2.65	1.41	2.41	ZC1PP0.50T304ZP	ZC2PP0.50T304ZP
3/4”	0.75	2.28	3.28	3.00	1.10	1.65	2.65	1.24	2.24	ZC1PP0.75T304ZP	ZC2PP0.75T304ZP
1”	1.00	3.67	3.67	4.00	1.42	1.82	2.82	1.39	2.39	ZC1PP1.0T304ZP	ZC2PP1.0T304ZP
1 1/2”	1.660	3.11	4.11	4.60	1.42	2.32	3.32	2.11	3.11	ZC1PP1.50T304ZP *	ZC2PP1.50T304ZP *
2”	1.900	3.71	4.71	4.60	1.42	2.32	3.32	1.34	2.34	ZC1PP2.0T304ZP *	ZC2PP2.0T304ZP *

Pipe Size	Line OD	H		L	W	CL		WP		1” Spacer - Part Number (tight fit)	2” Spacer - Part Number (tight fit)
		1”	2”			1”	2”	1”	2”		
1/2”	0.840	2.60	3.60	3.00	1.10	1.82	2.82	1.40	2.40	ZC1PP0.50P304ZP	ZC2PP0.50P304ZP
3/4”	1.050	2.60	3.60	3.00	1.10	1.82	2.82	1.26	2.26	ZC1PP0.75P304ZP	ZC2PP0.75P304ZP
1”	1.315	3.18	4.18	4.00	1.42	2.08	3.08	1.46	2.46	ZC1PP1.0P304ZP	ZC2PP1.0P304ZP
1 1/4”	1.660	3.68	4.68	4.60	1.42	2.40	3.40	1.41	2.41	ZC1PP1.25P304ZP *	ZC2PP1.25P304ZP *
1 1/2”	1.900	3.68	4.68	4.60	1.42	2.40	3.40	1.57	2.57	ZC1PP1.5P304ZP *	ZC2PP1.5P304ZP *

* On long vertical runs, a ZCUB should be considered for installation as an anchor



ZERO CAULK - MULTI PIPE WALL MOUNTING BRACKET

Eliminates Caulking and Welds

MOUNTING:

- Blindside - Insulated Metal Panels IMP's, Square Tubes, Framing... use Jack Nut/rivet nut
- Openside - Gypsum Board, Beams, Plates, Cement... use backside backing plate with lock nuts

APPLICATIONS:

- Cleanrooms and mechanical areas, including but not limited to the biotech, pharmaceutical, food processing, beverage, dairy, cosmetic, chemical, water treatment, and semiconductor industries
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SIZES:

- Support Range: 1/4" - 3" Tube and 1/2" - 2" Pipe for Copper and PVC Coated Pipe and EMT Conduit
- Tight fit Anchors and loose fit Guides are offered

MATERIALS:

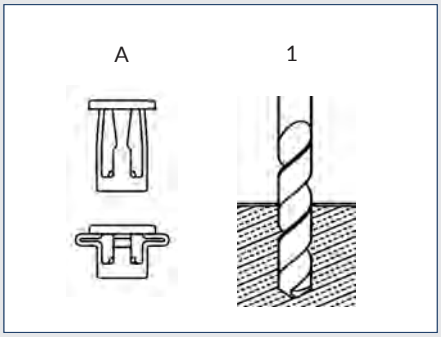
- 304 amd 316 stainless steels – for 316, replace 304 with 316 in the part number
- FDA grade Silicone Rubber Gaskets with Silver Ion/Anti-Bacterial agent

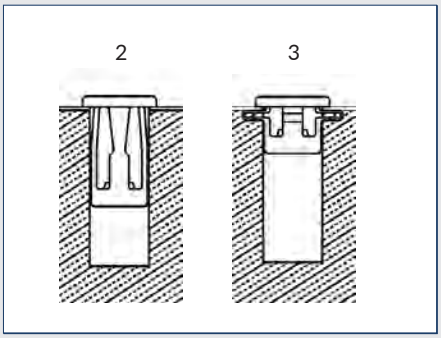
FEATURES:

- Silicone Rubber Gasket eliminates the use of caulk - caulk will breakdown over time creating voids
- Silicone Rubber Plugs/Gasket creates a drainable and cleanable seal to surface
- Silver ion additive is blended in the FDA grade Silicone Rubber Gaskets, impeding bacterial, mold, and fungus from forming on the gasket
- IPX5 certification – ensuring the bracket can withstand water jets from any direction
- One-inch bracket height – enhances the efficiency and inspectability of the washing and wipe-down process
- Jack Nut's tensile strengths are over 820 pounds
- ZERO PUDDLE Silicone inserts' raised geometry facilitates drainage of liquids on vertical/riser lines, reducing maintenance downtime

GRAPHICS: A FEW MINUTES PROCESS

A. Stock and actuated Rivet Nut
1. Drill 7/16" hole into IMP
2. Rivet nut placed in hole
3. Rivet nut actuated and secured to IMP via MARSON, M39043 MJN-2 JACK NUT INSERT TOOL





Refer to www.syntirocorp.com or call Syntiro for most up to date information

ZCMPB - ZERO CAULK - MULTI PIPE WALL MOUNTING BRACKET

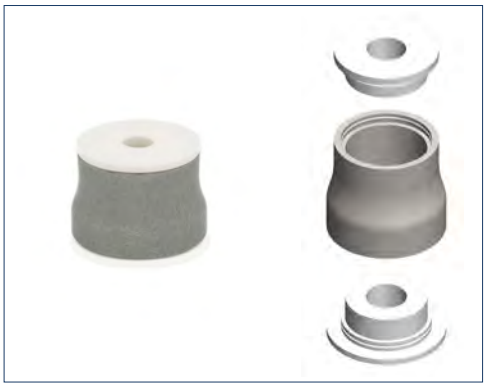
Silicone rubber gasket seals to surfaces, no gaps

ZC038M-038-304 (MINI)

7/8" STAND OFF - BRACKET TO HANGER, UP TO 3/8" THREAD

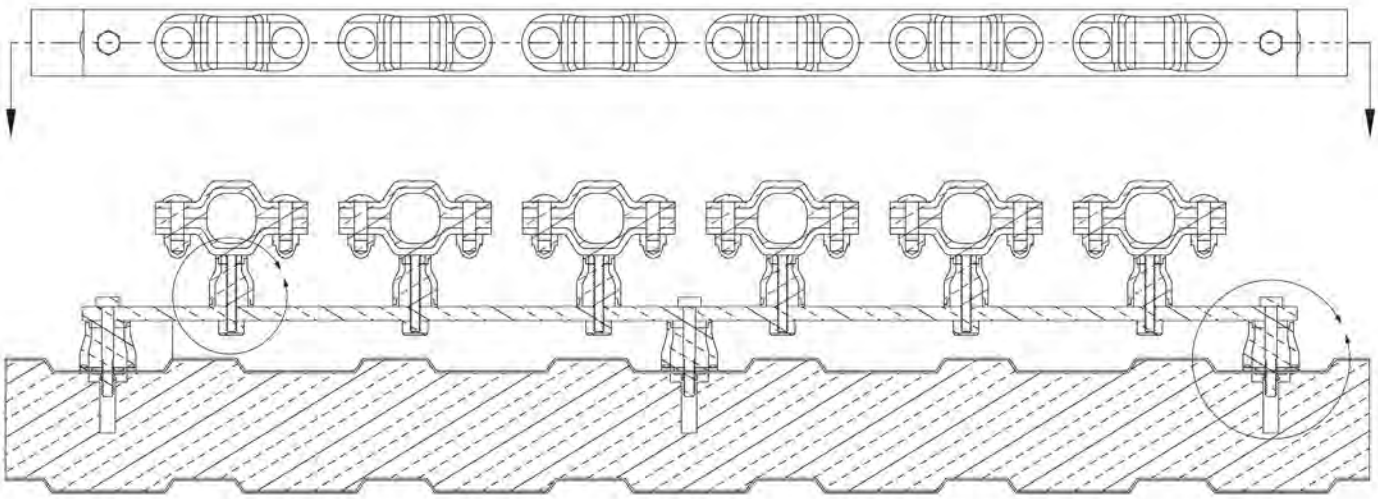
ZC038MP0.75T304SAN

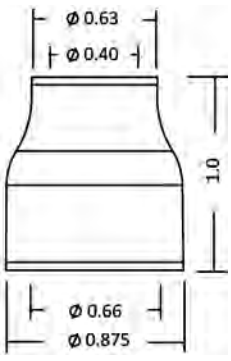
ZERO CAULK - ZC SERIES - 1" PEDESTAL w/ PHH HANGERS

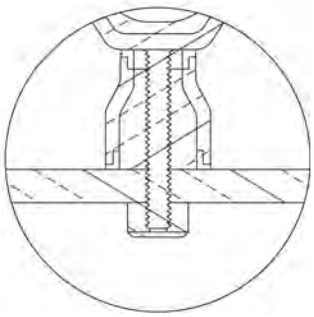


ZC050-1SWC-304

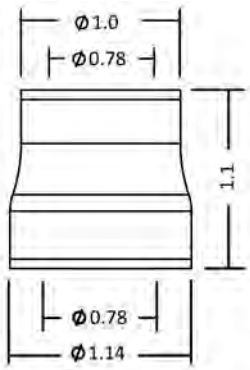
1" STAND OFF - WALL TO COMPONENT UP TO 1/2" THREAD

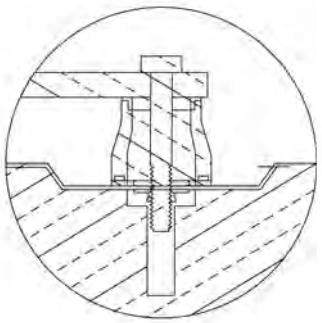






ZC038M - (MINI)





ZC050-1SWC

ZERO CAULK UNIVERSAL CUP with 3/8”-16 THREADED CONNECTION
ZCUPT-038-304

- Eliminates Caulking and Welds
- Silicone rubber gasket seals to surface, no gaps
- Silicone rubber plug fills ZCUPs interior and seal to mounting surface
- Silicone rubber O-ring, under bolts head, seals bolt channel.
- Ideal for mounting to Insulated Metal Panels, yet perfect for Clean Room Panels
- 304 and 316 stainless steels.
- For 316, in part number, substitute 304 with 316

PART NUMBER - ZCUPT-038-304

Lenght	Height	Width	Threaded Connection	Connecting Bolts	Bolt Holes Center Line	Part Number
4.41”	1.19”	1.48”	3/8”-16	1/4”-20	3.25”	ZCUPT-038-304

ZERO CAULK 1” WALL TO COMPONENT - ZCS SPACERS

Silicone rubber gasket seals to surfaces, no gaps

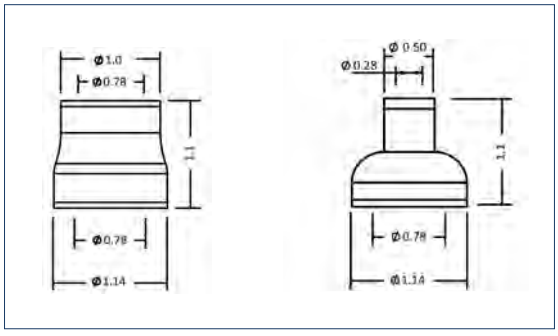
ZC050-1SWC-304

1” STANDOFF - WALL TO COMPONENT

UP TO 3/4” THREAD

ZC025-1SWC-304

1” STANDOFF - WALL TO COMPONENT



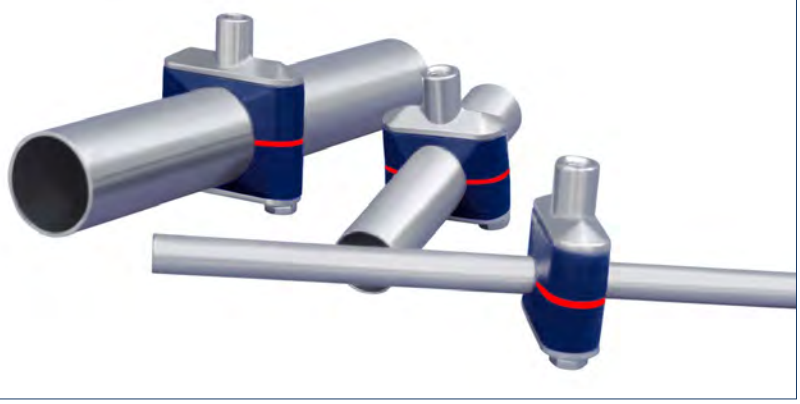
SHIELDED ALL THREAD RODS - SROD

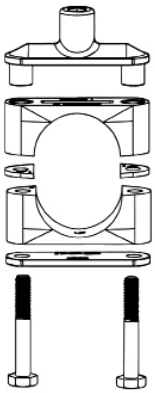
- Tight-fit, FDA-approved, LDPE shield encases all thread rod
- LDPE sleeve can be cut to size with a utility knife
- Leaving the LDPE sleeve up to a 1/4” long, as fasteners/hangers are installed, the LDPE compacts, increasing the tight connection at each end of the SROD
- SROD’s are a cost-saving alternative to using a stainless steel tube to cover all threaded rods
- SROD’s eliminate the labor of facing each end of the stainless tube sleeve

Threaded Rod	PART NUMBER	DESCRIPTION
3/8”-16	SROD-038-304-LDPE-GRAY	Shielded Rod, 3/8”-16, 6 Feet Long, 304, LDPE Sleeve, Gray
1/2”-13	SROD-050-304-LDPE-GRAY	Shielded Rod, 1/2”-13, 6 Feet Long, 304, LDPE Sleeve, Gray
5/8”-11	SROD-063-304-LDPE-GRAY	Shielded Rod, 5/8”-11, 6 Feet Long, 304, LDPE Sleeve, Gray
3/8”-16	SROD-038-ZINC-LDPE-GRAY	Shielded Rod, 3/8”-16, 6 Feet Long, ZINC, LDPE Sleeve, Gray
1/2”-13	SROD-050-ZINC-LDPE-GRAY	Shielded Rod, 1/2”-13, 6 Feet Long, ZINC, LDPE Sleeve, Gray
5/8”-11	SROD-063-ZINC-LDPE-GRAY	Shielded Rod, 5/8”-11, 6 Feet Long, ZINC, LDPE Sleeve, Gray

CSD GUIDES

- Allows Tube and Pipe to freely expand and contract during thermal cycling





Syntiro Dynamics

WORLD LEADING HYGIENIC EQUIPMENT MANUFACTURERS "HANG WITH THE BEST"

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U.S. Pat. No. US 8,596,589 B2 - US 9,033,289 B2 - US 9,038,968 B2 with other US Patents

Cat. GPPC1025